



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 10:36 AM UTC

PDB ID : 2XYN / pdb_00002xyn
Title : HUMAN ABL2 IN COMPLEX WITH AURORA KINASE INHIBITOR VX-680
Authors : Salah, E.; Ugochukwu, E.; Elkins, J.M.; Barr, A.J.; Shrestha, B.; Savitsky, P.; Mahajan, P.; Muniz, J.R.C.; Yue, W.W.; Chaikuad, A.; von Delft, F.; Bountra, C.; Arrowsmith, C.H.; Weigelt, J.; Edwards, A.; Knapp, S.; Structural Genomics Consortium (SGC)
Deposited on : 2010-11-18
Resolution : 2.81 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)

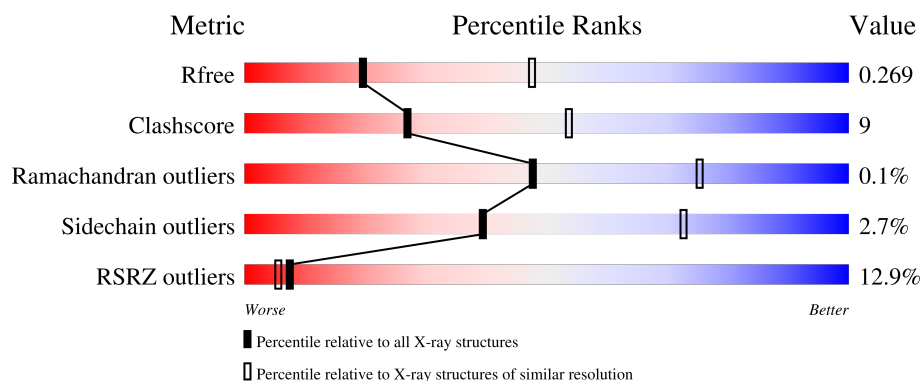
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.81 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	4591 (2.84-2.80)
Clashscore	190562	5010 (2.84-2.80)
Ramachandran outliers	187476	4916 (2.84-2.80)
Sidechain outliers	187428	4918 (2.84-2.80)
RSRZ outliers	180081	4594 (2.84-2.80)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	292	7% 76% 14% 10%
1	B	292	8% 75% 15% 10%
1	C	292	21% 80% 9% 10%

Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 6093 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called TYROSINE-PROTEIN KINASE ABL2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	264	Total	C	N	O	S	0	1	0
			2026	1311	328	372	15			
1	B	264	Total	C	N	O	S	0	0	0
			2025	1314	326	369	16			
1	C	262	Total	C	N	O	S	0	0	0
			1795	1147	306	330	12			

There are 72 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	255	MET	-	expression tag	UNP P42684
A	256	GLY	-	expression tag	UNP P42684
A	257	HIS	-	expression tag	UNP P42684
A	258	HIS	-	expression tag	UNP P42684
A	259	HIS	-	expression tag	UNP P42684
A	260	HIS	-	expression tag	UNP P42684
A	261	HIS	-	expression tag	UNP P42684
A	262	HIS	-	expression tag	UNP P42684
A	263	SER	-	expression tag	UNP P42684
A	264	SER	-	expression tag	UNP P42684
A	265	GLY	-	expression tag	UNP P42684
A	266	VAL	-	expression tag	UNP P42684
A	267	ASP	-	expression tag	UNP P42684
A	268	LEU	-	expression tag	UNP P42684
A	269	GLY	-	expression tag	UNP P42684
A	270	THR	-	expression tag	UNP P42684
A	271	GLU	-	expression tag	UNP P42684
A	272	ASN	-	expression tag	UNP P42684
A	273	LEU	-	expression tag	UNP P42684
A	274	TYR	-	expression tag	UNP P42684
A	275	PHE	-	expression tag	UNP P42684
A	276	GLN	-	expression tag	UNP P42684
A	277	SER	-	expression tag	UNP P42684

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Chain	Residue	Modelled	Actual	Comment	Reference
A	278	MET	-	expression tag	UNP P42684
B	255	MET	-	expression tag	UNP P42684
B	256	GLY	-	expression tag	UNP P42684
B	257	HIS	-	expression tag	UNP P42684
B	258	HIS	-	expression tag	UNP P42684
B	259	HIS	-	expression tag	UNP P42684
B	260	HIS	-	expression tag	UNP P42684
B	261	HIS	-	expression tag	UNP P42684
B	262	HIS	-	expression tag	UNP P42684
B	263	SER	-	expression tag	UNP P42684
B	264	SER	-	expression tag	UNP P42684
B	265	GLY	-	expression tag	UNP P42684
B	266	VAL	-	expression tag	UNP P42684
B	267	ASP	-	expression tag	UNP P42684
B	268	LEU	-	expression tag	UNP P42684
B	269	GLY	-	expression tag	UNP P42684
B	270	THR	-	expression tag	UNP P42684
B	271	GLU	-	expression tag	UNP P42684
B	272	ASN	-	expression tag	UNP P42684
B	273	LEU	-	expression tag	UNP P42684
B	274	TYR	-	expression tag	UNP P42684
B	275	PHE	-	expression tag	UNP P42684
B	276	GLN	-	expression tag	UNP P42684
B	277	SER	-	expression tag	UNP P42684
B	278	MET	-	expression tag	UNP P42684
C	255	MET	-	expression tag	UNP P42684
C	256	GLY	-	expression tag	UNP P42684
C	257	HIS	-	expression tag	UNP P42684
C	258	HIS	-	expression tag	UNP P42684
C	259	HIS	-	expression tag	UNP P42684
C	260	HIS	-	expression tag	UNP P42684
C	261	HIS	-	expression tag	UNP P42684
C	262	HIS	-	expression tag	UNP P42684
C	263	SER	-	expression tag	UNP P42684
C	264	SER	-	expression tag	UNP P42684
C	265	GLY	-	expression tag	UNP P42684
C	266	VAL	-	expression tag	UNP P42684
C	267	ASP	-	expression tag	UNP P42684
C	268	LEU	-	expression tag	UNP P42684
C	269	GLY	-	expression tag	UNP P42684
C	270	THR	-	expression tag	UNP P42684
C	271	GLU	-	expression tag	UNP P42684

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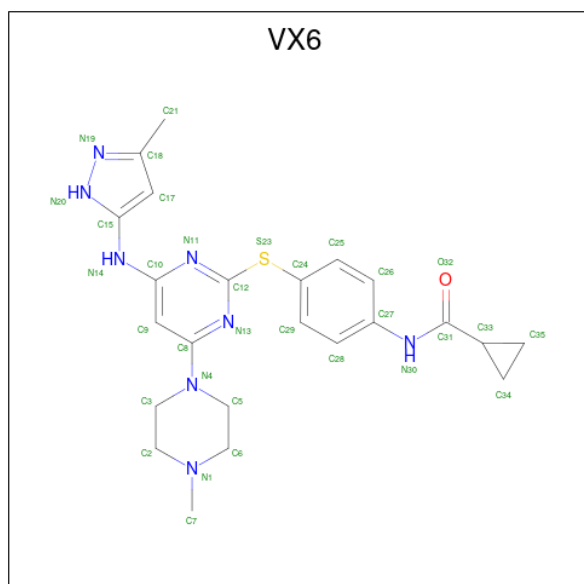
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Chain	Residue	Modelled	Actual	Comment	Reference
C	272	ASN	-	expression tag	UNP P42684
C	273	LEU	-	expression tag	UNP P42684
C	274	TYR	-	expression tag	UNP P42684
C	275	PHE	-	expression tag	UNP P42684
C	276	GLN	-	expression tag	UNP P42684
C	277	SER	-	expression tag	UNP P42684
C	278	MET	-	expression tag	UNP P42684

- Molecule 2 is SODIUM ION (CCD ID: NA) (formula: Na).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	2	Total Na 2 2	0	0

- Molecule 3 is CYCLOPROPANECARBOXYLIC ACID {4-[4-(4-METHYL-PIPERAZIN-1-YL)-6-(5-METHYL-2H-PYRAZOL-3-YLAMINO)-PYRIMIDIN-2-YLSULFANYL]-PHENYL}-AMIDE (CCD ID: VX6) (formula: C₂₃H₂₈N₈OS).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total C N O S 33 23 8 1 1	0	0
3	B	1	Total C N O S 33 23 8 1 1	0	0
3	B	1	Total C N O S 33 23 8 1 1	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	B	1	Total 33	C 23	N 8	O 1	S 1	0	0
3	C	1	Total 33	C 23	N 8	O 1	S 1	0	0
3	C	1	Total 33	C 23	N 8	O 1	S 1	0	0
3	C	1	Total 33	C 23	N 8	O 1	S 1	0	0

- Molecule 4 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	1	Total 1	Cl 1	0	0

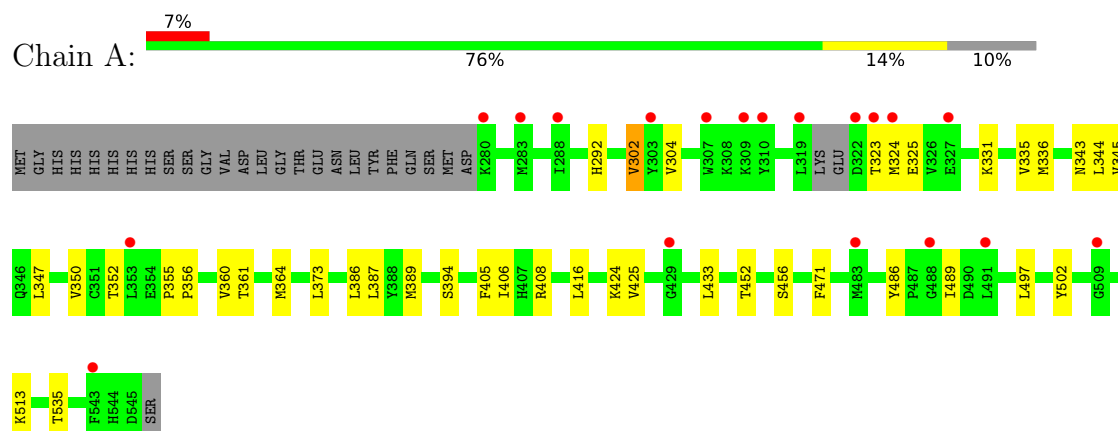
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	6	Total 6	O 6	0	0
5	B	7	Total 7	O 7	0	0

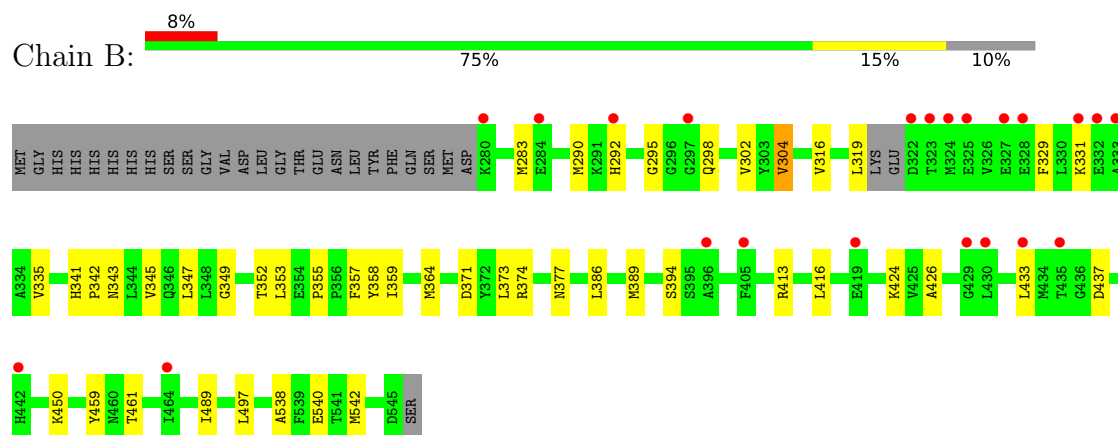
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

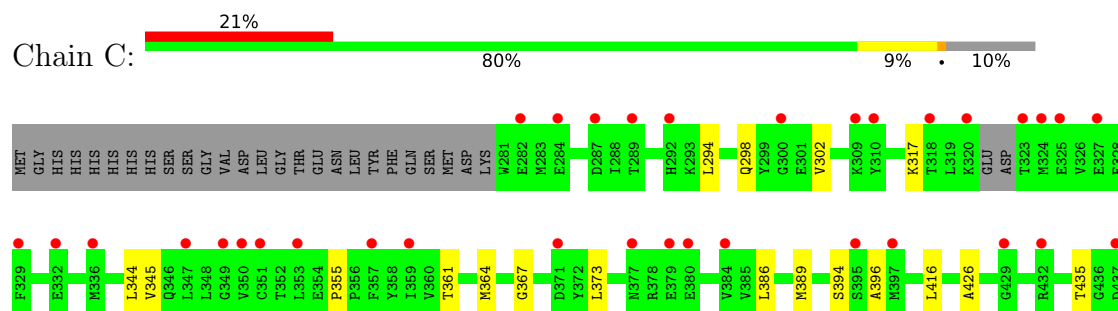
• Molecule 1: TYROSINE-PROTEIN KINASE ABL2

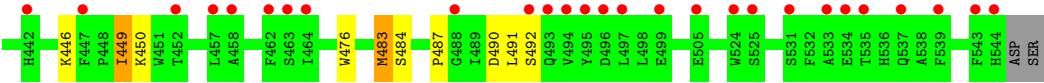


• Molecule 1: TYROSINE-PROTEIN KINASE ABL2



• Molecule 1: TYROSINE-PROTEIN KINASE ABL2





4 Data and refinement statistics

Property	Value	Source
Space group	P 32 2 1	Depositor
Cell constants a, b, c, α , β , γ	170.50Å 170.50Å 100.65Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	147.66 – 2.81 147.66 – 2.81	Depositor EDS
% Data completeness (in resolution range)	99.9 (147.66-2.81) 99.9 (147.66-2.81)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.89 (at 2.82Å)	Xtriage
Refinement program	REFMAC 5.5.0110	Depositor
R, R_{free}	0.246 , 0.284 0.240 , 0.269	Depositor DCC
R_{free} test set	2086 reflections (5.02%)	wwPDB-VP
Wilson B-factor (Å ²)	87.7	Xtriage
Anisotropy	0.235	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 107.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.026 for -h,-k,l	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	6093	wwPDB-VP
Average B, all atoms (Å ²)	94.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.73% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: CL, VX6, NA

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	A	0.76	0/2081	0.84	0/2838
1	B	0.70	0/2080	0.81	0/2839
1	C	0.61	0/1839	0.79	0/2525
All	All	0.70	0/6000	0.82	0/8202

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2026	0	1858	25	0
1	B	2025	0	1882	37	0
1	C	1795	0	1457	33	0
2	A	2	0	0	0	0
3	A	33	0	28	8	0
3	B	99	0	84	15	0
3	C	99	0	84	21	0
4	A	1	0	0	0	0
5	A	6	0	0	0	0
5	B	7	0	0	0	0
All	All	6093	0	5393	106	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 9.

All (106) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:283:MET:HE3	1:B:349:GLY:HA3	1.46	0.97
1:B:290:MET:HE1	1:B:316:VAL:HG11	1.48	0.95
3:B:547:VX6:H26	3:B:547:VX6:O32	1.68	0.94
1:A:364:MET:H	3:A:547:VX6:H20	1.10	0.91
1:B:450:LYS:NZ	1:C:492:SER:OG	2.06	0.87
1:B:295:GLY:HA2	1:C:483:MET:SD	2.14	0.87
1:A:302:VAL:HG11	3:A:547:VX6:H26	1.58	0.84
1:B:364:MET:H	3:B:547:VX6:H20	1.24	0.82
1:B:290:MET:HE1	1:B:316:VAL:CG1	2.16	0.75
1:B:319:LEU:HD21	1:B:329:PHE:HB2	1.71	0.73
1:B:353:LEU:HA	3:B:548:VX6:H52	1.72	0.71
3:B:547:VX6:O32	3:B:547:VX6:C26	2.37	0.71
1:C:449:ILE:HD11	3:C:549:VX6:H17	1.73	0.71
3:C:549:VX6:O32	3:C:549:VX6:H26	1.93	0.67
1:B:374:ARG:NH2	1:C:491:LEU:HG	2.11	0.66
1:C:364:MET:H	3:C:547:VX6:H20	1.44	0.66
1:A:302:VAL:HG11	3:A:547:VX6:C26	2.25	0.66
1:A:336:MET:HE1	1:A:361:THR:CG2	2.26	0.66
1:C:302:VAL:HG11	3:C:547:VX6:H26	1.77	0.66
1:B:355:PRO:HD3	3:B:548:VX6:C15	2.28	0.63
1:B:292:HIS:CG	1:B:304:VAL:CG1	2.82	0.62
1:B:345:VAL:HG21	1:B:416:LEU:HD12	1.80	0.62
1:A:323:THR:O	1:A:325:GLU:N	2.30	0.61
3:B:548:VX6:O32	3:B:548:VX6:H26	2.00	0.61
1:B:283:MET:CE	1:B:349:GLY:HA3	2.27	0.60
1:C:294:LEU:HD22	3:C:547:VX6:C8	2.32	0.59
1:A:331:LYS:O	1:A:335:VAL:HG23	2.03	0.59
1:B:461:THR:HG21	3:B:549:VX6:C12	2.33	0.58
1:A:350:VAL:HB	1:A:352:THR:HG23	1.84	0.58
1:A:406:ILE:HG23	1:A:408:ARG:HG3	1.85	0.57
1:B:352:THR:HG22	1:B:357:PHE:CD2	2.40	0.56
1:C:345:VAL:HG21	1:C:416:LEU:HD12	1.87	0.56
1:B:459:TYR:HB3	3:B:549:VX6:C2	2.37	0.55
1:B:373:LEU:HD21	1:B:389:MET:HE1	1.89	0.55
1:C:302:VAL:HG11	3:C:547:VX6:C26	2.36	0.55
1:C:367:GLY:N	3:C:547:VX6:H51	2.22	0.55
1:B:459:TYR:HB3	3:B:549:VX6:H21	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:344:LEU:CD2	1:C:396:ALA:HB1	2.37	0.55
3:A:547:VX6:H26	3:A:547:VX6:O32	2.05	0.55
1:A:336:MET:HE1	1:A:361:THR:HG21	1.88	0.54
1:A:347:LEU:HD12	1:A:360:VAL:O	2.08	0.54
1:C:345:VAL:HG21	1:C:426:ALA:HB2	1.89	0.54
1:C:476:TRP:HH2	1:C:483:MET:HE2	1.74	0.53
1:C:344:LEU:HD21	1:C:396:ALA:HB1	1.91	0.53
1:C:446:LYS:HA	3:C:549:VX6:H211	1.90	0.52
1:A:343:ASN:HA	1:A:424:LYS:HG2	1.92	0.52
3:B:549:VX6:N11	3:B:549:VX6:H17	2.25	0.52
1:C:302:VAL:HG21	3:C:547:VX6:C26	2.40	0.52
1:A:471:PHE:CE2	1:A:535:THR:HG21	2.46	0.51
1:A:364:MET:N	3:A:547:VX6:H20	1.94	0.51
1:A:386:LEU:HD23	1:A:389:MET:CE	2.40	0.51
3:A:547:VX6:H17	3:A:547:VX6:N11	2.26	0.51
1:B:319:LEU:HD21	1:B:329:PHE:CB	2.38	0.51
1:A:292:HIS:CE1	1:A:304:VAL:HG11	2.45	0.51
1:B:386:LEU:HD23	1:B:389:MET:CE	2.42	0.49
3:B:549:VX6:N11	3:B:549:VX6:C17	2.74	0.49
1:A:345:VAL:HG21	1:A:416:LEU:HD12	1.93	0.49
1:B:347:LEU:CD1	1:B:359:ILE:HG23	2.43	0.48
1:B:290:MET:HE2	1:B:358:TYR:CZ	2.48	0.47
3:C:549:VX6:N11	3:C:549:VX6:C17	2.76	0.47
3:A:547:VX6:N11	3:A:547:VX6:C17	2.73	0.47
3:B:547:VX6:H17	3:B:547:VX6:N11	2.30	0.47
1:C:416:LEU:HD13	3:C:547:VX6:N19	2.30	0.47
3:C:549:VX6:H212	3:C:549:VX6:H28	1.96	0.47
1:C:386:LEU:HD23	1:C:389:MET:CE	2.44	0.46
1:B:341:HIS:CG	1:B:342:PRO:HD2	2.50	0.46
1:A:373:LEU:HD21	1:A:389:MET:HE1	1.98	0.46
1:A:486:TYR:HB3	1:A:489:ILE:HD12	1.98	0.46
1:C:361:THR:HG21	3:C:547:VX6:H352	1.99	0.45
1:C:373:LEU:HD21	1:C:389:MET:HE1	1.98	0.45
1:C:317:LYS:HD2	3:C:547:VX6:H33	1.98	0.45
1:C:483:MET:HE3	1:C:484:SER:N	2.32	0.45
1:A:502:TYR:HB2	1:B:497:LEU:HD21	1.99	0.44
1:C:490:ASP:OD1	1:C:490:ASP:C	2.60	0.44
3:C:549:VX6:H17	3:C:549:VX6:N11	2.33	0.44
1:A:405:PHE:CE1	1:A:433:LEU:HD13	2.53	0.44
1:B:377:ASN:HB2	1:C:298:GLN:HE21	1.83	0.43
1:C:345:VAL:CG2	1:C:426:ALA:HB2	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:483:MET:HE1	1:C:487:PRO:HG3	1.99	0.43
1:B:386:LEU:HD23	1:B:389:MET:HE2	2.00	0.43
1:A:355:PRO:HA	1:A:356:PRO:C	2.44	0.43
3:B:548:VX6:O32	3:B:548:VX6:C26	2.67	0.43
3:C:549:VX6:H9	3:C:549:VX6:H51	1.85	0.43
1:C:483:MET:HE3	1:C:484:SER:O	2.18	0.42
1:A:302:VAL:HG11	3:A:547:VX6:C25	2.50	0.42
3:B:547:VX6:N11	3:B:547:VX6:C17	2.79	0.42
1:C:483:MET:HE2	1:C:483:MET:HB3	1.95	0.42
1:C:367:GLY:CA	3:C:547:VX6:H51	2.49	0.42
1:B:343:ASN:HA	1:B:424:LYS:HG2	2.02	0.42
1:B:345:VAL:HG21	1:B:426:ALA:HB2	2.02	0.42
3:B:549:VX6:H9	3:B:549:VX6:H51	1.82	0.42
1:B:295:GLY:CA	1:C:483:MET:SD	2.97	0.41
1:B:298:GLN:OE1	1:B:413:ARG:HD2	2.20	0.41
1:B:331:LYS:O	1:B:335:VAL:HG23	2.21	0.41
1:A:452:THR:CG2	1:A:456:SER:HB2	2.50	0.41
1:B:371:ASP:OD1	1:C:450:LYS:NZ	2.54	0.41
1:B:290:MET:CE	1:B:316:VAL:HG11	2.35	0.41
1:B:292:HIS:CG	1:B:304:VAL:HG13	2.55	0.41
3:C:548:VX6:H17	3:C:548:VX6:N11	2.36	0.41
1:A:344:LEU:HD23	1:A:425:VAL:HB	2.03	0.41
1:A:497:LEU:HD21	1:B:489:ILE:HD11	2.03	0.40
1:B:292:HIS:CG	1:B:304:VAL:HG11	2.54	0.40
1:B:538:ALA:O	1:B:542:MET:HG3	2.21	0.40
3:C:548:VX6:H17	3:C:548:VX6:C25	2.50	0.40
1:C:302:VAL:HG21	3:C:547:VX6:H26	2.02	0.40
1:C:355:PRO:HG3	3:C:548:VX6:H26	2.04	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	261/292 (89%)	254 (97%)	6 (2%)	1 (0%)	30	58
1	B	260/292 (89%)	252 (97%)	8 (3%)	0	100	100
1	C	258/292 (88%)	250 (97%)	8 (3%)	0	100	100
All	All	779/876 (89%)	756 (97%)	22 (3%)	1 (0%)	48	75

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	324	MET

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	191/253 (76%)	187 (98%)	4 (2%)	47	78
1	B	194/253 (77%)	188 (97%)	6 (3%)	35	69
1	C	128/253 (51%)	124 (97%)	4 (3%)	35	69
All	All	513/759 (68%)	499 (97%)	14 (3%)	39	72

All (14) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	302	VAL
1	A	387	LEU
1	A	394	SER
1	A	513	LYS
1	B	302	VAL
1	B	304	VAL
1	B	394	SER
1	B	433	LEU
1	B	437	ASP
1	B	540	GLU
1	C	394	SER
1	C	435	THR

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Mol	Chain	Res	Type
1	C	449	ILE
1	C	483	MET

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (5) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	292	HIS
1	B	343	ASN
1	B	421	HIS
1	C	298	GLN
1	C	536	HIS

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 10 ligands modelled in this entry, 3 are monoatomic - leaving 7 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
3	VX6	A	547	-	36,37,37	1.70	6 (16%)	48,52,52	2.27	16 (33%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	VX6	C	548	-	36,37,37	1.79	8 (22%)	48,52,52	2.12	10 (20%)
3	VX6	B	547	-	36,37,37	1.67	5 (13%)	48,52,52	2.24	16 (33%)
3	VX6	C	549	-	36,37,37	1.91	8 (22%)	48,52,52	2.08	12 (25%)
3	VX6	B	548	-	36,37,37	2.03	10 (27%)	48,52,52	2.14	9 (18%)
3	VX6	C	547	-	36,37,37	1.74	6 (16%)	48,52,52	2.17	14 (29%)
3	VX6	B	549	-	36,37,37	1.75	7 (19%)	48,52,52	1.95	13 (27%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	VX6	A	547	-	-	4/20/32/32	0/5/5/5
3	VX6	C	548	-	-	4/20/32/32	0/5/5/5
3	VX6	B	547	-	-	4/20/32/32	0/5/5/5
3	VX6	C	549	-	-	7/20/32/32	0/5/5/5
3	VX6	B	548	-	-	1/20/32/32	0/5/5/5
3	VX6	C	547	-	-	7/20/32/32	0/5/5/5
3	VX6	B	549	-	-	4/20/32/32	0/5/5/5

All (50) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	547	VX6	N20-N19	-6.17	1.23	1.36
3	C	549	VX6	N20-N19	-6.08	1.23	1.36
3	C	548	VX6	N20-N19	-6.07	1.23	1.36
3	B	548	VX6	N20-N19	-6.04	1.24	1.36
3	A	547	VX6	N20-N19	-6.03	1.24	1.36
3	B	549	VX6	N20-N19	-5.96	1.24	1.36
3	C	547	VX6	N20-N19	-5.62	1.24	1.36
3	B	548	VX6	C12-S23	4.41	1.82	1.76
3	C	549	VX6	C17-C18	-4.20	1.33	1.40
3	C	549	VX6	C17-C15	-4.03	1.33	1.38
3	B	547	VX6	C17-C18	-3.95	1.33	1.40
3	A	547	VX6	C17-C18	-3.81	1.33	1.40
3	B	547	VX6	C17-C15	-3.76	1.33	1.38
3	B	549	VX6	C17-C18	-3.76	1.33	1.40
3	C	547	VX6	C17-C15	-3.70	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	548	VX6	C17-C15	-3.62	1.34	1.38
3	B	548	VX6	C17-C18	-3.56	1.34	1.40
3	C	547	VX6	C17-C18	-3.44	1.34	1.40
3	A	547	VX6	C10-N14	-3.43	1.32	1.40
3	B	548	VX6	C8-N4	3.42	1.45	1.37
3	C	548	VX6	C17-C15	-3.41	1.34	1.38
3	B	549	VX6	C17-C15	-3.40	1.34	1.38
3	C	548	VX6	C17-C18	-3.40	1.34	1.40
3	A	547	VX6	C17-C15	-3.31	1.34	1.38
3	C	548	VX6	C27-N30	-3.28	1.35	1.41
3	B	549	VX6	C27-N30	-3.26	1.35	1.41
3	B	548	VX6	C27-N30	-3.10	1.35	1.41
3	C	549	VX6	C33-C31	2.98	1.56	1.51
3	C	549	VX6	C27-N30	-2.96	1.35	1.41
3	B	549	VX6	C10-N14	-2.75	1.34	1.40
3	B	547	VX6	C10-N14	-2.73	1.34	1.40
3	C	549	VX6	C10-N14	-2.70	1.34	1.40
3	C	547	VX6	C24-S23	2.68	1.82	1.77
3	C	547	VX6	C21-C18	2.58	1.54	1.50
3	C	548	VX6	C21-C18	2.58	1.54	1.50
3	C	548	VX6	C10-N14	-2.47	1.34	1.40
3	C	548	VX6	C24-S23	-2.47	1.73	1.77
3	B	548	VX6	C21-C18	2.40	1.54	1.50
3	B	548	VX6	C5-N4	2.40	1.50	1.46
3	B	548	VX6	C3-N4	2.37	1.50	1.46
3	C	547	VX6	C12-S23	2.31	1.79	1.76
3	B	549	VX6	C21-C18	2.29	1.54	1.50
3	C	549	VX6	C3-N4	2.27	1.50	1.46
3	B	548	VX6	C33-C31	2.26	1.55	1.51
3	B	547	VX6	C27-N30	-2.24	1.37	1.41
3	C	549	VX6	C8-N4	2.20	1.42	1.37
3	C	548	VX6	C3-N4	2.18	1.50	1.46
3	A	547	VX6	C8-N4	2.16	1.42	1.37
3	B	549	VX6	C12-S23	-2.07	1.73	1.76
3	A	547	VX6	C21-C18	2.03	1.53	1.50

All (90) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	548	VX6	C12-N13-C8	7.50	123.47	115.50
3	B	548	VX6	C12-N11-C10	7.09	121.75	115.15
3	A	547	VX6	C12-N11-C10	6.91	121.59	115.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	547	VX6	C12-N11-C10	6.80	121.49	115.15
3	B	548	VX6	C12-N13-C8	6.77	122.70	115.50
3	C	547	VX6	C12-N13-C8	6.32	122.22	115.50
3	C	549	VX6	C12-N11-C10	6.20	120.92	115.15
3	A	547	VX6	C12-S23-C24	5.79	113.24	102.76
3	C	549	VX6	C12-N13-C8	5.42	121.26	115.50
3	B	549	VX6	C12-N11-C10	5.22	120.01	115.15
3	A	547	VX6	N13-C8-N4	5.08	122.98	116.56
3	B	549	VX6	C10-C9-C8	5.07	120.69	116.64
3	C	548	VX6	C12-N11-C10	5.05	119.86	115.15
3	B	548	VX6	C10-C9-C8	4.93	120.58	116.64
3	C	548	VX6	C5-N4-C3	4.91	122.61	111.57
3	B	547	VX6	C12-N13-C8	4.79	120.59	115.50
3	B	547	VX6	C10-C9-C8	4.64	120.35	116.64
3	C	547	VX6	N14-C10-N11	4.54	124.33	113.33
3	B	549	VX6	C12-N13-C8	4.48	120.25	115.50
3	C	548	VX6	C34-C33-C31	-4.47	112.87	117.24
3	C	547	VX6	C12-N11-C10	4.44	119.29	115.15
3	C	547	VX6	C10-C9-C8	4.40	120.16	116.64
3	C	547	VX6	N13-C8-N4	4.39	122.10	116.56
3	B	548	VX6	N14-C10-N11	4.33	123.82	113.33
3	C	549	VX6	C10-C9-C8	4.20	120.00	116.64
3	B	548	VX6	N13-C12-N11	-4.19	119.34	127.00
3	C	549	VX6	C5-N4-C3	4.15	120.90	111.57
3	A	547	VX6	C12-N13-C8	4.14	119.89	115.50
3	B	549	VX6	N13-C8-N4	4.10	121.74	116.56
3	A	547	VX6	C10-C9-C8	4.07	119.89	116.64
3	B	547	VX6	C27-N30-C31	-3.97	118.30	127.37
3	B	547	VX6	C5-N4-C3	3.94	120.43	111.57
3	C	549	VX6	N13-C8-N4	3.92	121.51	116.56
3	C	547	VX6	C5-N4-C3	3.83	120.19	111.57
3	C	548	VX6	N13-C12-N11	-3.72	120.20	127.00
3	C	549	VX6	C12-S23-C24	3.59	109.26	102.76
3	B	547	VX6	N13-C8-N4	3.58	121.09	116.56
3	B	547	VX6	N14-C10-N11	3.56	121.96	113.33
3	C	549	VX6	N14-C10-N11	3.45	121.68	113.33
3	B	549	VX6	N14-C10-N11	3.41	121.59	113.33
3	C	549	VX6	N13-C12-N11	-3.40	120.80	127.00
3	C	548	VX6	N14-C10-N11	3.32	121.37	113.33
3	B	547	VX6	C35-C33-C31	-3.29	114.03	117.24
3	A	547	VX6	N13-C12-N11	-3.29	121.00	127.00
3	A	547	VX6	C9-C8-N4	-3.23	118.45	122.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	547	VX6	N13-C12-N11	-3.22	121.11	127.00
3	A	547	VX6	C5-N4-C3	3.13	118.61	111.57
3	A	547	VX6	O32-C31-C33	-3.08	117.44	122.19
3	B	548	VX6	N13-C8-N4	3.08	120.45	116.56
3	B	548	VX6	C9-C8-N13	-3.08	117.41	123.34
3	C	547	VX6	C21-C18-C17	-3.03	124.07	128.62
3	B	547	VX6	N13-C12-N11	-3.03	121.47	127.00
3	A	547	VX6	N14-C10-N11	2.99	120.57	113.33
3	B	547	VX6	C33-C31-N30	2.95	120.86	115.16
3	B	548	VX6	C5-N4-C3	2.92	118.13	111.57
3	C	547	VX6	C9-C8-N13	-2.91	117.73	123.34
3	B	547	VX6	C12-S23-C24	2.84	107.90	102.76
3	B	549	VX6	C9-C8-N13	-2.82	117.92	123.34
3	C	547	VX6	C35-C33-C31	-2.79	114.51	117.24
3	C	548	VX6	C12-S23-C24	2.79	107.81	102.76
3	B	547	VX6	O32-C31-C33	-2.78	117.90	122.19
3	B	549	VX6	C34-C33-C31	-2.74	114.56	117.24
3	C	548	VX6	C9-C8-N13	-2.72	118.11	123.34
3	C	549	VX6	C9-C8-N13	-2.71	118.13	123.34
3	C	547	VX6	C5-C6-N1	-2.69	106.54	110.86
3	C	547	VX6	O32-C31-C33	-2.69	118.04	122.19
3	B	547	VX6	C9-C10-N11	-2.68	117.79	123.35
3	C	547	VX6	C21-C18-N19	2.65	126.56	120.85
3	B	547	VX6	C9-C8-N13	-2.63	118.27	123.34
3	A	547	VX6	C35-C33-C31	-2.62	114.67	117.24
3	B	549	VX6	C12-S23-C24	2.62	107.51	102.76
3	B	549	VX6	C5-N4-C3	2.57	117.36	111.57
3	A	547	VX6	C9-C8-N13	-2.48	118.56	123.34
3	B	548	VX6	C9-C10-N11	-2.48	118.21	123.35
3	B	549	VX6	N13-C12-N11	-2.45	122.53	127.00
3	C	548	VX6	C9-C8-N4	2.36	125.21	122.35
3	C	547	VX6	C9-C10-N14	-2.35	116.22	122.53
3	A	547	VX6	C28-C27-C26	-2.33	115.95	119.04
3	B	549	VX6	C9-C10-N11	-2.30	118.59	123.35
3	C	549	VX6	C21-C18-C17	-2.28	125.19	128.62
3	A	547	VX6	C29-C28-C27	2.26	122.90	120.30
3	B	547	VX6	C34-C33-C31	2.23	119.42	117.24
3	C	549	VX6	O32-C31-C33	-2.23	118.75	122.19
3	A	547	VX6	C34-C33-C31	2.18	119.37	117.24
3	C	549	VX6	C9-C10-N11	-2.15	118.89	123.35
3	B	549	VX6	C3-C2-N1	2.13	114.28	110.86
3	A	547	VX6	C9-C10-N11	-2.07	119.05	123.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	548	VX6	S23-C12-N11	2.06	124.77	116.52
3	B	547	VX6	C6-N1-C2	-2.04	106.29	109.54
3	B	549	VX6	C35-C33-C31	-2.00	115.28	117.24

There are no chirality outliers.

All (31) torsion outliers are listed below:

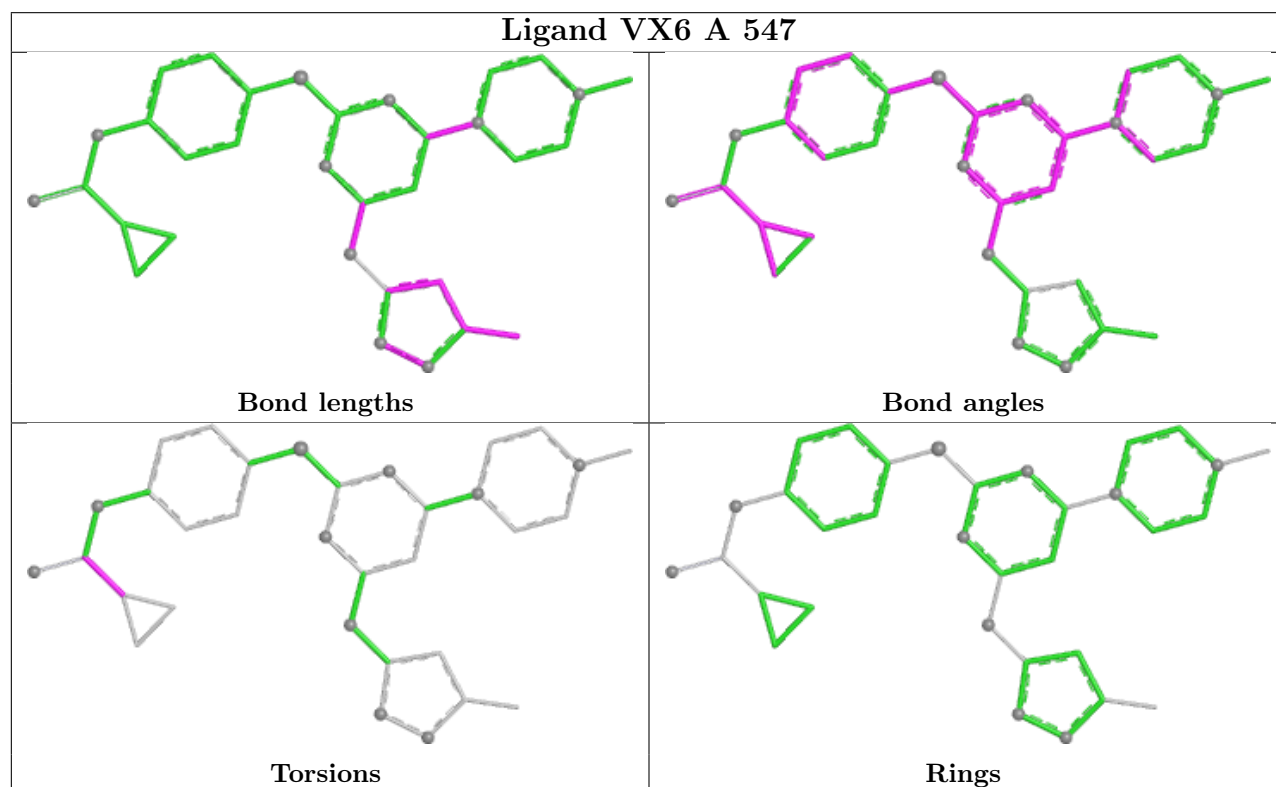
Mol	Chain	Res	Type	Atoms
3	A	547	VX6	N30-C31-C33-C34
3	A	547	VX6	O32-C31-C33-C34
3	A	547	VX6	O32-C31-C33-C35
3	B	547	VX6	N30-C31-C33-C34
3	B	547	VX6	N30-C31-C33-C35
3	B	547	VX6	O32-C31-C33-C34
3	B	547	VX6	O32-C31-C33-C35
3	B	549	VX6	N30-C31-C33-C34
3	B	549	VX6	N30-C31-C33-C35
3	B	549	VX6	O32-C31-C33-C34
3	B	549	VX6	O32-C31-C33-C35
3	C	547	VX6	N20-C15-N14-C10
3	C	547	VX6	N30-C31-C33-C34
3	C	547	VX6	O32-C31-C33-C34
3	C	548	VX6	N30-C31-C33-C34
3	C	548	VX6	O32-C31-C33-C34
3	C	549	VX6	N20-C15-N14-C10
3	C	549	VX6	N30-C31-C33-C34
3	C	549	VX6	N30-C31-C33-C35
3	C	549	VX6	O32-C31-C33-C34
3	C	549	VX6	O32-C31-C33-C35
3	C	547	VX6	C9-C8-N4-C3
3	C	547	VX6	N13-C8-N4-C3
3	C	547	VX6	N13-C8-N4-C5
3	A	547	VX6	N30-C31-C33-C35
3	C	548	VX6	C25-C24-S23-C12
3	C	547	VX6	C9-C8-N4-C5
3	C	549	VX6	C29-C24-S23-C12
3	C	548	VX6	C29-C24-S23-C12
3	C	549	VX6	C25-C24-S23-C12
3	B	548	VX6	N20-C15-N14-C10

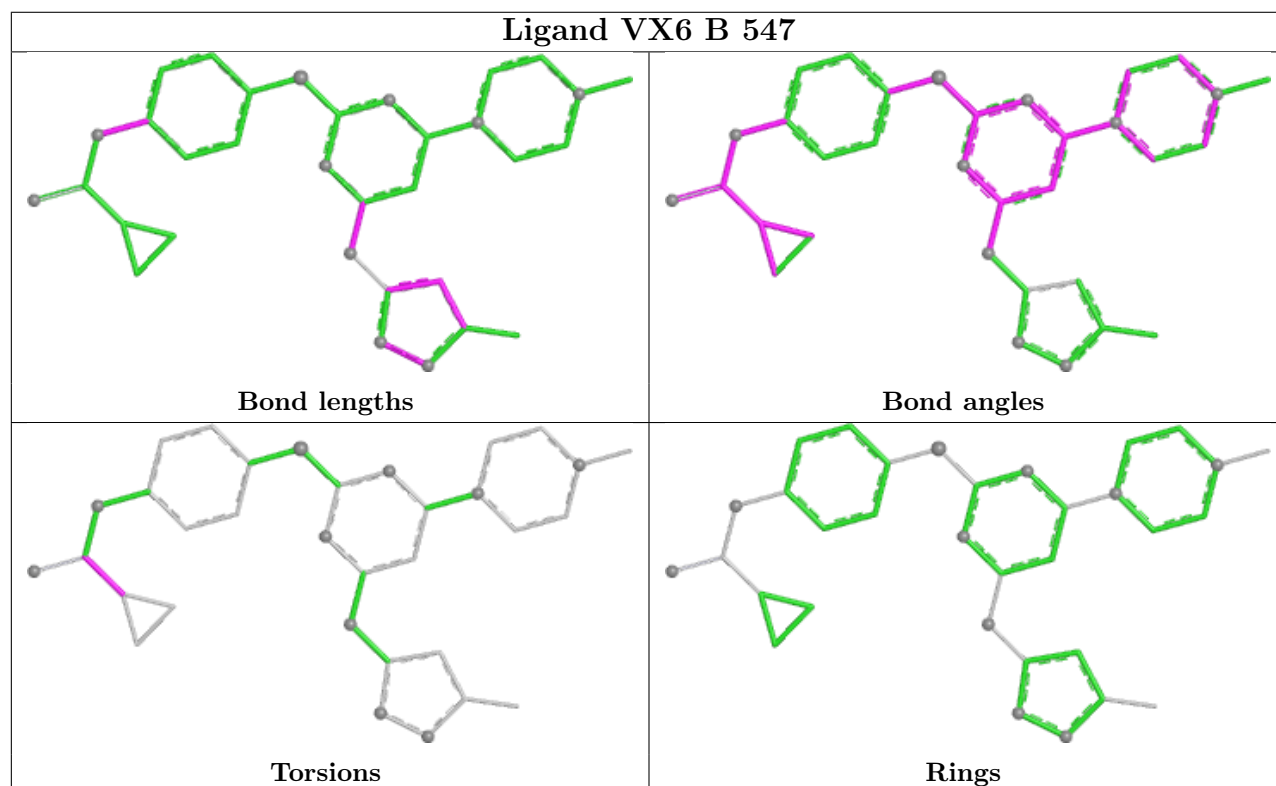
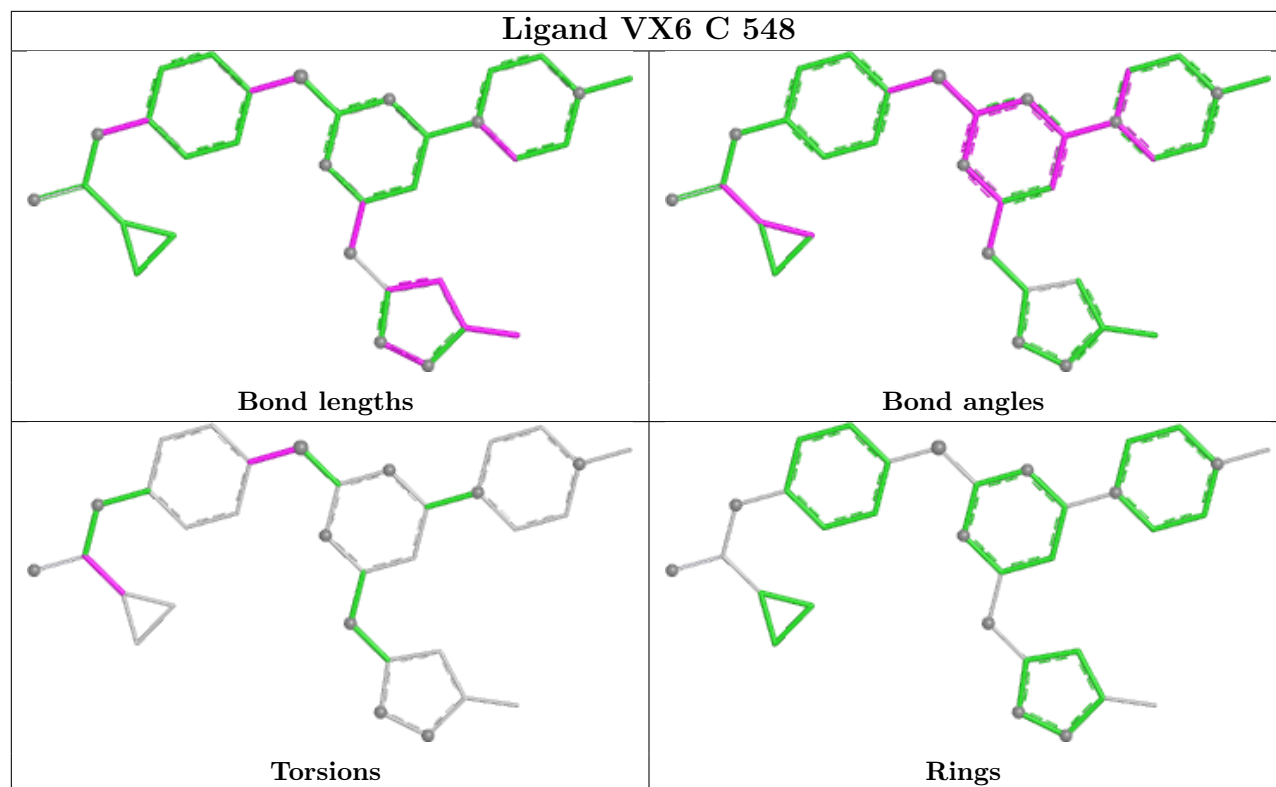
There are no ring outliers.

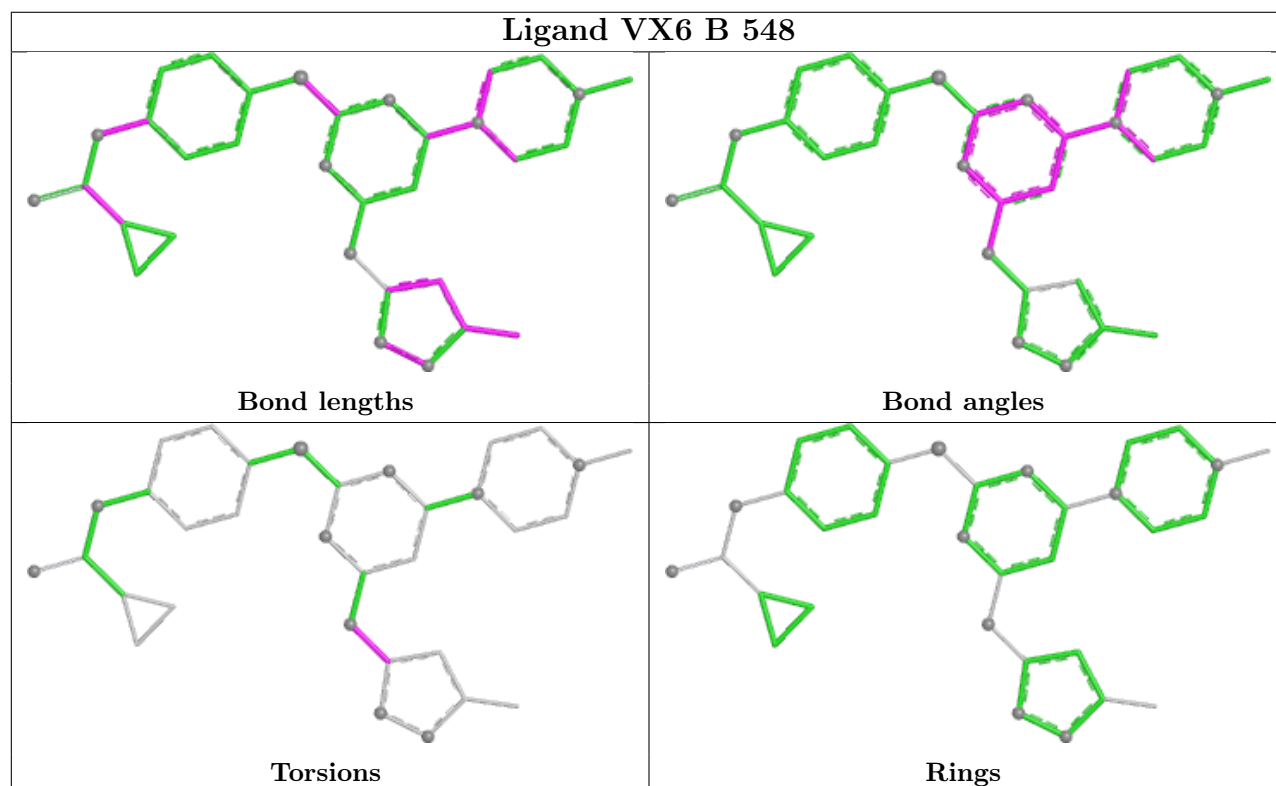
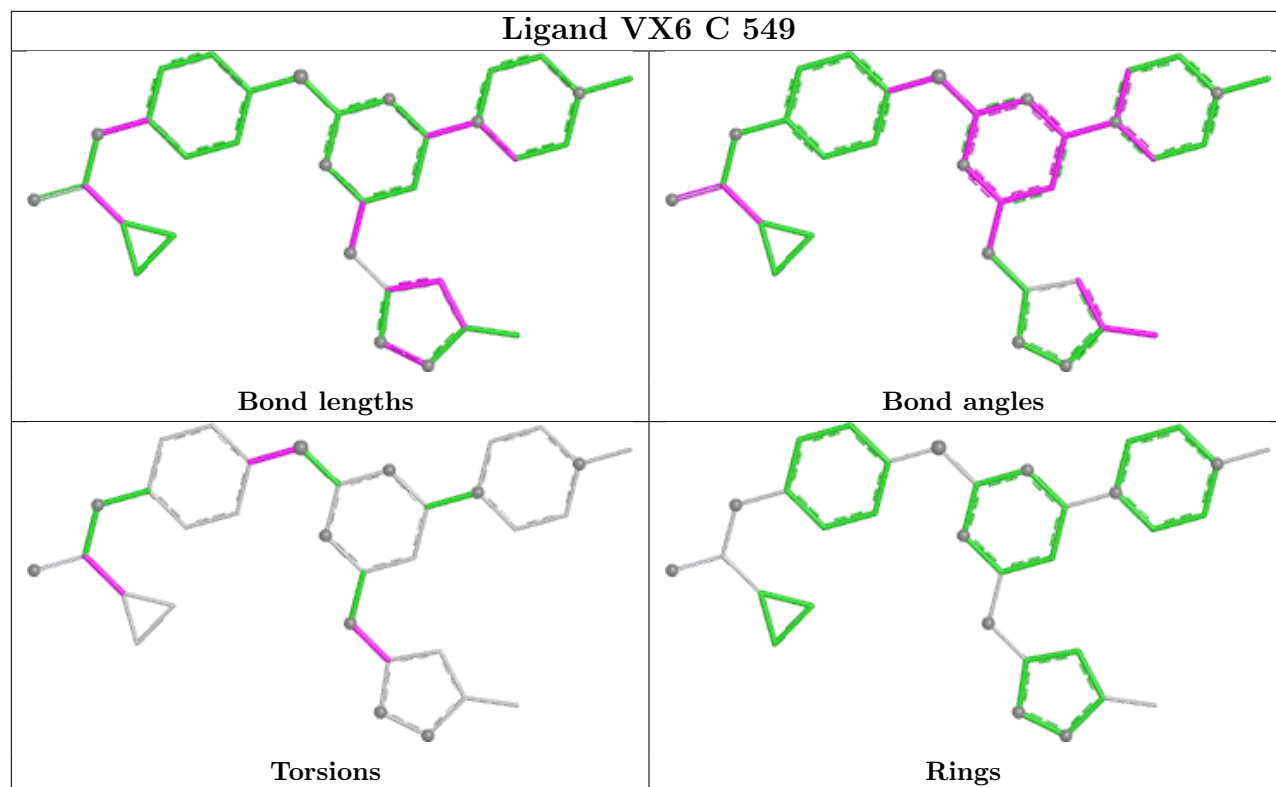
7 monomers are involved in 44 short contacts:

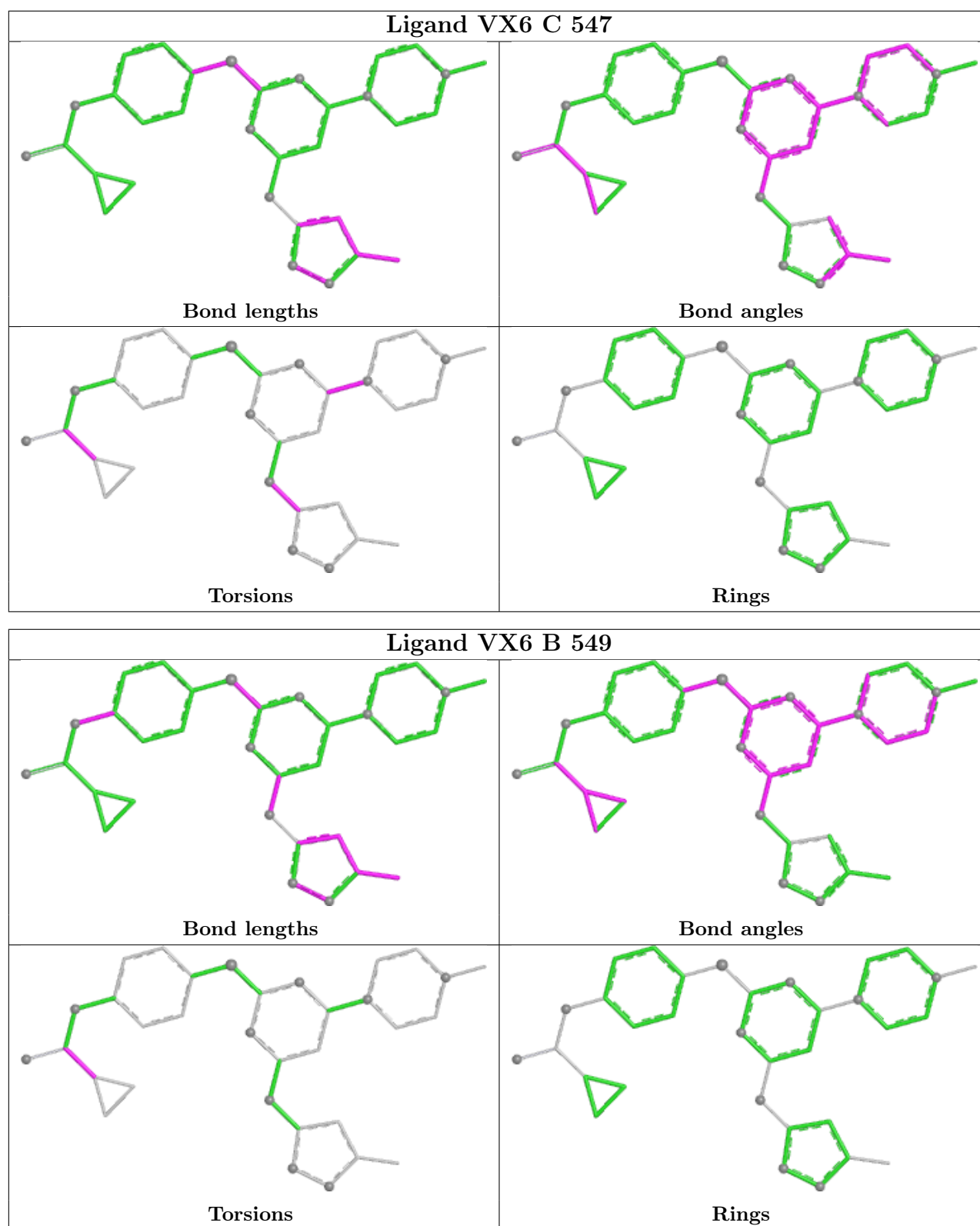
Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	547	VX6	8	0
3	C	548	VX6	3	0
3	B	547	VX6	5	0
3	C	549	VX6	7	0
3	B	548	VX6	4	0
3	C	547	VX6	11	0
3	B	549	VX6	6	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.









5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

In the following table, the column labelled ‘#RSRZ > 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q < 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	264/292 (90%)	0.45	19 (7%) 21 15	31, 77, 133, 171	1 (0%)
1	B	264/292 (90%)	0.56	22 (8%) 17 12	55, 81, 132, 172	0
1	C	262/292 (89%)	1.23	61 (23%) 2 1	75, 113, 155, 174	0
All	All	790/876 (90%)	0.75	102 (12%) 7 5	31, 92, 146, 174	1 (0%)

All (102) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	322	ASP	7.4
1	C	544	HIS	7.2
1	B	327	GLU	6.0
1	B	325	GLU	5.4
1	C	429	GLY	5.1
1	A	319	LEU	5.0
1	B	323	THR	4.5
1	B	396	ALA	4.4
1	B	405	PHE	4.3
1	A	309	LYS	4.2
1	C	539	PHE	4.1
1	C	524	TRP	4.1
1	C	287	ASP	3.9
1	C	495	TYR	3.9
1	A	280	LYS	3.8
1	C	457	LEU	3.7
1	B	332	GLU	3.6
1	A	323	THR	3.6
1	C	534	GLU	3.5
1	C	437	ASP	3.5
1	C	349	GLY	3.4
1	A	488	GLY	3.3
1	C	397	MET	3.3

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Mol	Chain	Res	Type	RSRZ
1	C	323	THR	3.3
1	C	432	ARG	3.2
1	C	284	GLU	3.2
1	C	497	LEU	3.2
1	C	329	PHE	3.1
1	C	499	GLU	3.1
1	C	447	PHE	3.1
1	A	322	ASP	3.0
1	C	462	PHE	3.0
1	A	310	TYR	2.9
1	C	300	GLY	2.9
1	A	303	TYR	2.8
1	B	328	GLU	2.8
1	B	442	HIS	2.8
1	C	336	MET	2.8
1	C	357	PHE	2.7
1	B	333	ALA	2.7
1	B	324	MET	2.7
1	C	535	THR	2.6
1	C	325	GLU	2.6
1	A	509	GLY	2.6
1	C	488	GLY	2.6
1	A	353	LEU	2.6
1	C	505	GLU	2.6
1	C	318	THR	2.6
1	C	379	GLU	2.6
1	A	483	MET	2.6
1	B	280	LYS	2.5
1	A	324	MET	2.5
1	A	288	ILE	2.5
1	A	327	GLU	2.5
1	C	496	ASP	2.5
1	C	494	VAL	2.5
1	B	284	GLU	2.5
1	C	289	THR	2.5
1	C	309	LYS	2.5
1	C	377	ASN	2.5
1	C	464	ILE	2.5
1	C	525	SER	2.5
1	C	310	TYR	2.5
1	C	351	CYS	2.4
1	C	531	SER	2.4

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Mol	Chain	Res	Type	RSRZ
1	C	537	GLN	2.4
1	C	292	HIS	2.4
1	C	463	SER	2.4
1	C	452	THR	2.4
1	C	492	SER	2.4
1	A	491	LEU	2.4
1	B	464	ILE	2.3
1	A	429	GLY	2.3
1	C	458	ALA	2.3
1	B	331	LYS	2.3
1	B	433	LEU	2.3
1	A	543	PHE	2.3
1	B	419	GLU	2.3
1	C	359	ILE	2.2
1	C	384	VAL	2.2
1	B	435	THR	2.2
1	C	332	GLU	2.2
1	C	442	HIS	2.2
1	C	395	SER	2.2
1	C	282	GLU	2.2
1	C	493	GLN	2.1
1	B	430	LEU	2.1
1	C	543	PHE	2.1
1	C	347	LEU	2.1
1	C	353	LEU	2.1
1	B	297	GLY	2.1
1	C	533	ALA	2.1
1	C	320	LYS	2.1
1	C	350	VAL	2.1
1	C	371	ASP	2.1
1	A	283	MET	2.0
1	C	324	MET	2.0
1	B	292	HIS	2.0
1	B	429	GLY	2.0
1	A	307	TRP	2.0
1	C	327	GLU	2.0
1	C	380	GLU	2.0

6.2 Non-standard residues in protein, DNA, RNA chains

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

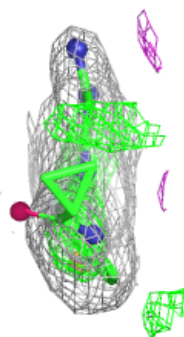
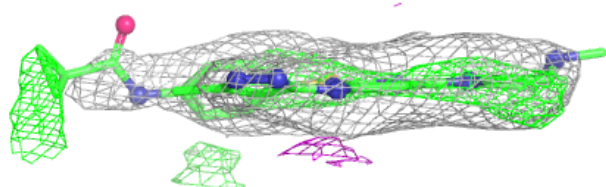
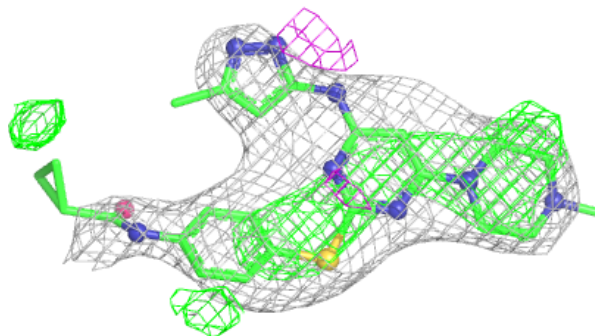
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
3	VX6	C	548	33/33	0.69	0.38	245,253,262,269	0
3	VX6	B	548	33/33	0.71	0.21	99,104,106,106	0
3	VX6	B	549	33/33	0.80	0.17	94,97,103,104	0
3	VX6	C	549	33/33	0.83	0.31	184,188,193,195	0
4	CL	A	548	1/1	0.84	0.12	126,126,126,126	0
2	NA	A	549	1/1	0.92	0.17	73,73,73,73	0
2	NA	A	1	1/1	0.93	0.19	65,65,65,65	0
3	VX6	C	547	33/33	0.94	0.23	132,137,156,159	0
3	VX6	A	547	33/33	0.95	0.11	66,74,79,80	0
3	VX6	B	547	33/33	0.95	0.12	65,72,77,78	0

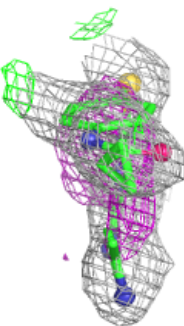
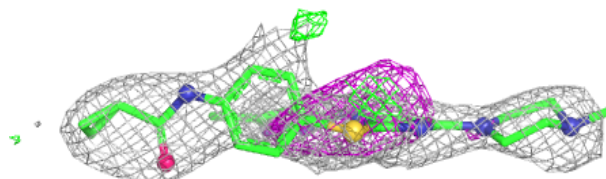
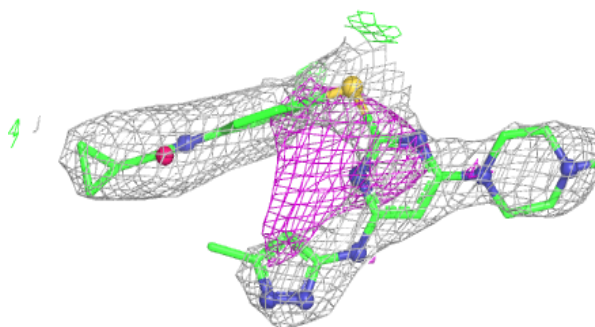
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

Electron density around VX6 C 548:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

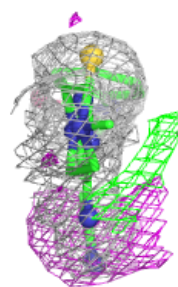
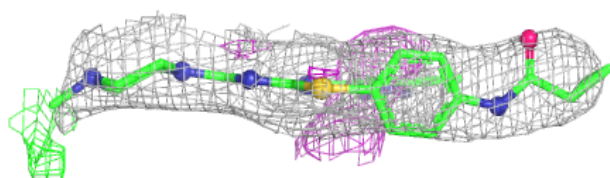
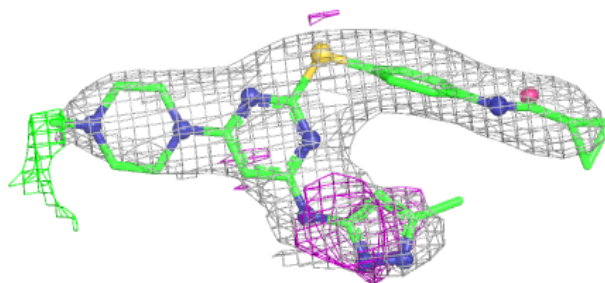
**Electron density around VX6 B 548:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

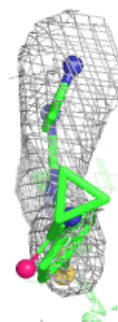
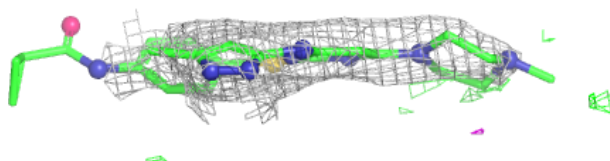
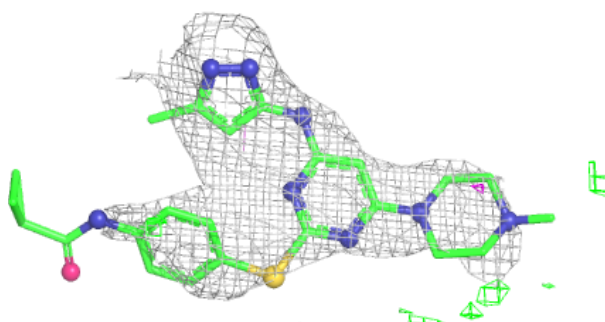


Electron density around VX6 B 549:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

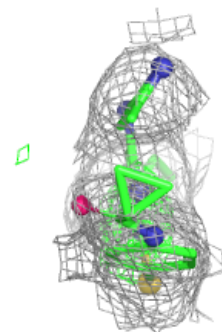
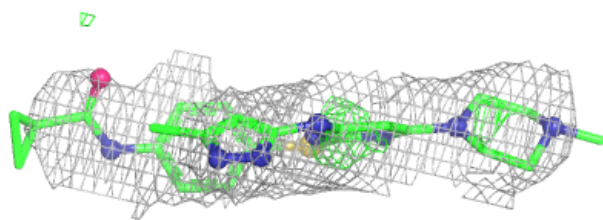
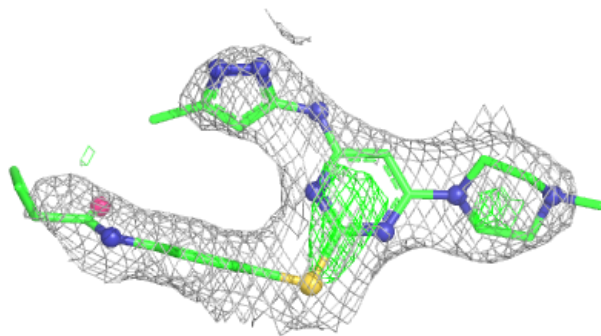
**Electron density around VX6 C 549:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

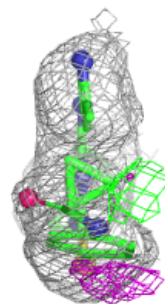
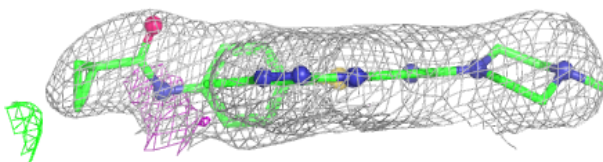
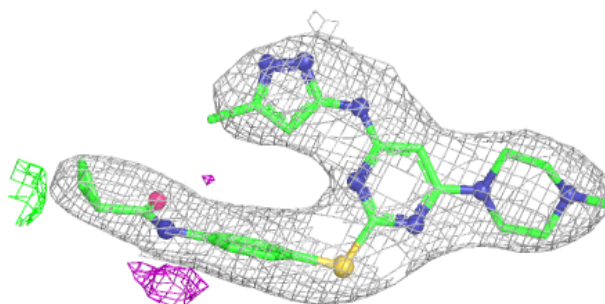


Electron density around VX6 C 547:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)

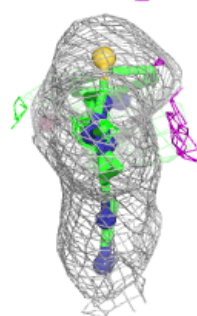
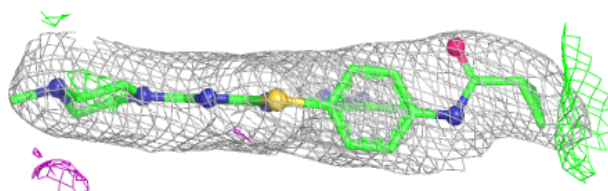
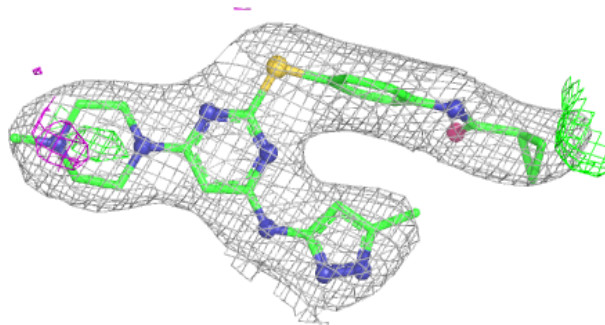
**Electron density around VX6 A 547:**

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around VX6 B 547:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



6.5 Other polymers [i](#)

There are no such residues in this entry.