



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2026 – 02:00 PM UTC

PDB ID : 8FRQ / pdb_00008frq
Title : LSD1-CoREST in complex with T14, long soaking
Authors : Caroli, J.; Mattevi, A.
Deposited on : 2023-01-08
Resolution : 2.89 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)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

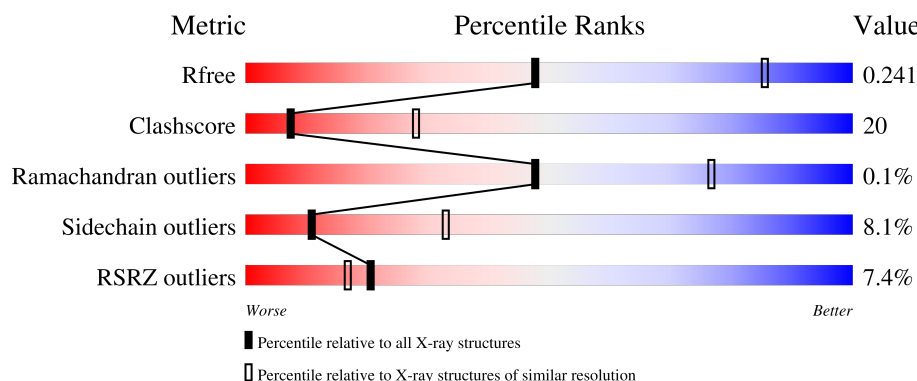
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.89 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	2481 (2.90-2.90)
Clashscore	190562	2690 (2.90-2.90)
Ramachandran outliers	187476	2623 (2.90-2.90)
Sidechain outliers	187428	2625 (2.90-2.90)
RSRZ outliers	180081	2481 (2.90-2.90)

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	871	 4% 51% 22% 24%
2	B	144	 15% 53% 31% 8% 8%

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 6437 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 Lysine-specific histone demethylase 1A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	666	Total	C	N	O	S	0	0	0
			5217	3324	906	967	20			

There are 19 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-18	GLY	-	expression tag	UNP O60341
A	-17	SER	-	expression tag	UNP O60341
A	-16	SER	-	expression tag	UNP O60341
A	-15	HIS	-	expression tag	UNP O60341
A	-14	HIS	-	expression tag	UNP O60341
A	-13	HIS	-	expression tag	UNP O60341
A	-12	HIS	-	expression tag	UNP O60341
A	-11	HIS	-	expression tag	UNP O60341
A	-10	HIS	-	expression tag	UNP O60341
A	-9	SER	-	expression tag	UNP O60341
A	-8	SER	-	expression tag	UNP O60341
A	-7	GLY	-	expression tag	UNP O60341
A	-6	LEU	-	expression tag	UNP O60341
A	-5	VAL	-	expression tag	UNP O60341
A	-4	PRO	-	expression tag	UNP O60341
A	-3	ARG	-	expression tag	UNP O60341
A	-2	GLY	-	expression tag	UNP O60341
A	-1	SER	-	expression tag	UNP O60341
A	0	HIS	-	expression tag	UNP O60341

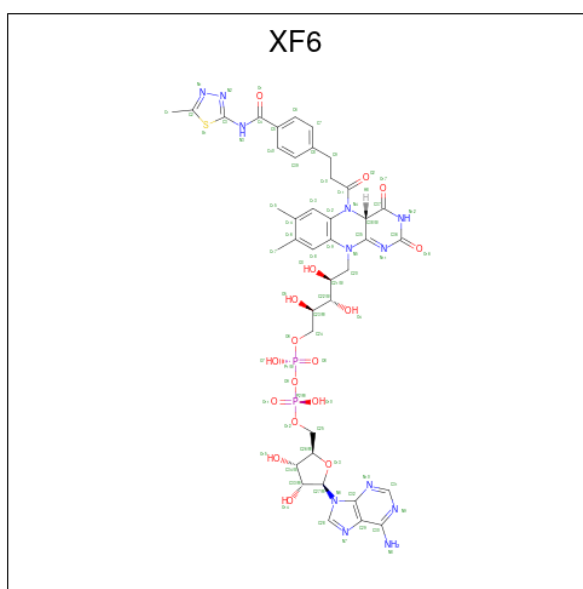
- Molecule 2 is a protein called REST corepressor 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	133	Total	C	N	O	S	0	0	0
			1076	676	194	203	3			

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	297	GLY	-	expression tag	UNP Q9UKL0
B	298	PRO	-	expression tag	UNP Q9UKL0
B	299	LEU	-	expression tag	UNP Q9UKL0
B	300	GLY	-	expression tag	UNP Q9UKL0
B	301	SER	-	expression tag	UNP Q9UKL0
B	302	PRO	-	expression tag	UNP Q9UKL0
B	303	GLU	-	expression tag	UNP Q9UKL0
B	304	PHE	-	expression tag	UNP Q9UKL0

- Molecule 3 is [(2R,3S,4R,5R)-5-(6-amino-9H-purin-9-yl)-3,4-dihydroxyoxolan-2-yl]methyl (2R,3S,4S)-5-[(4aS)-7,8-dimethyl-5-(3-{4-[(5-methyl-1,3,4-thiadiazol-2-yl)carbamoyl]phenyl}propanoyl)-2,4-dioxo-3,4,4a,5-tetrahydrobenzo[g]pteridin-10(2H)-yl]-2,3,4-trihydroxypentyl dihydrogen diphosphate (non-preferred name) (CCD ID: XF6) (formula: C₄₀H₄₆N₁₂O₁₇P₂S) (labeled as "Ligand of Interest" by depositor).

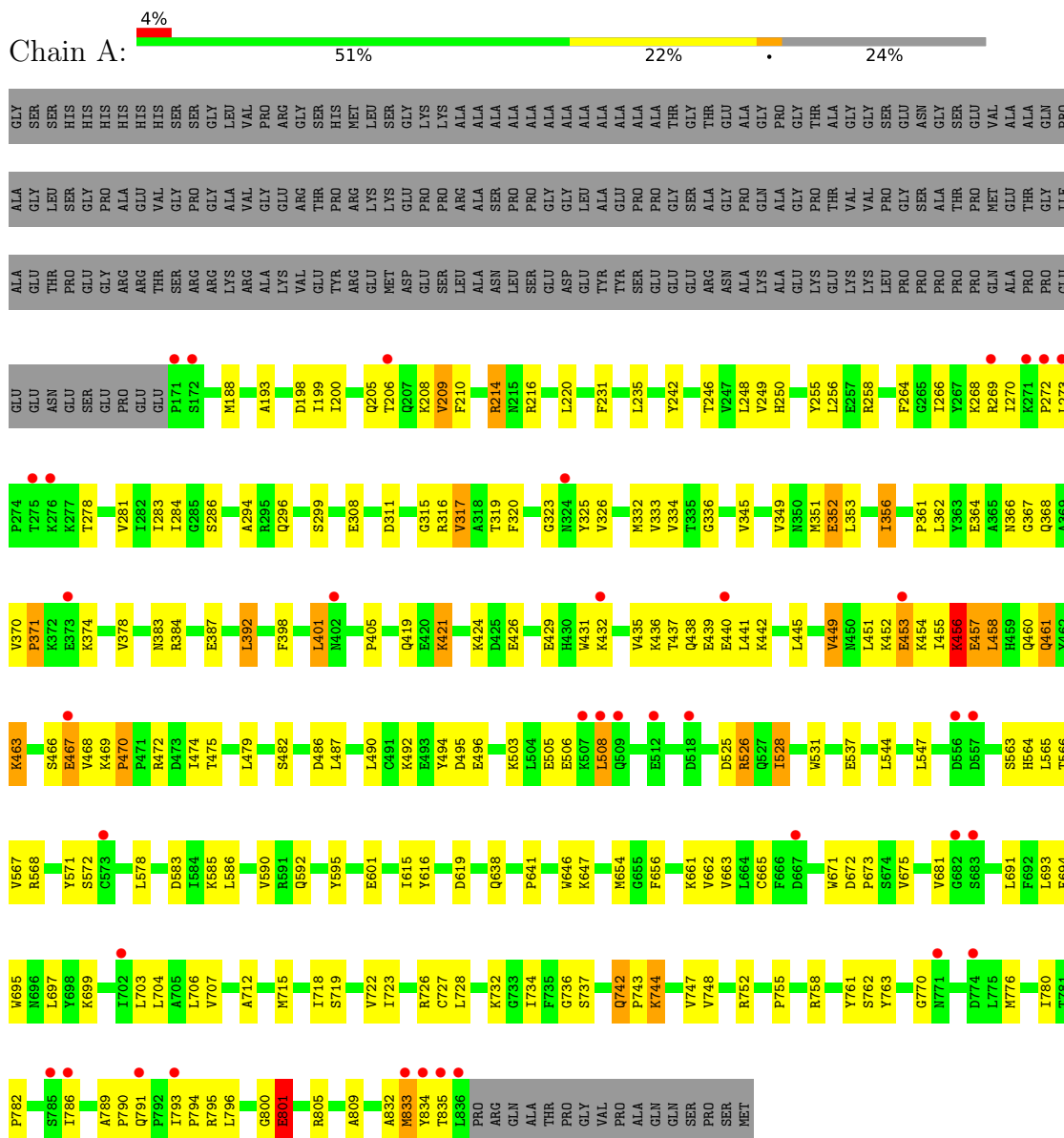


Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total	C	N	O	P	S	
			144	80	24	34	4	2	
								0	1

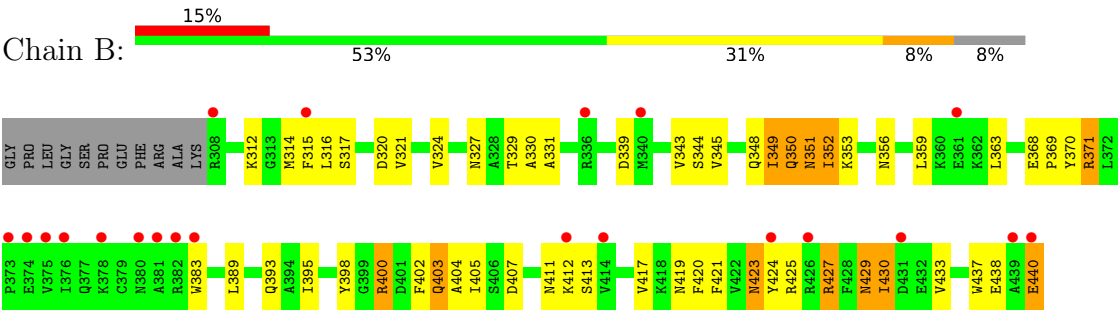
3 Residue-property plots

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: Lysine-specific histone demethylase 1A



- Molecule 2: REST corepressor 1



4 Data and refinement statistics

Property	Value	Source
Space group	I 2 2 2	Depositor
Cell constants a, b, c, α , β , γ	119.33Å 179.77Å 234.46Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	48.71 – 2.89 48.71 – 2.89	Depositor EDS
% Data completeness (in resolution range)	95.7 (48.71-2.89) 95.7 (48.71-2.89)	Depositor EDS
R_{merge}	0.15	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.82 (at 2.91Å)	Xtriage
Refinement program	PHENIX 1.18.2	Depositor
R, R_{free}	0.217 , 0.241 0.224 , 0.241	Depositor DCC
R_{free} test set	2000 reflections (3.53%)	wwPDB-VP
Wilson B-factor (Å ²)	71.1	Xtriage
Anisotropy	0.475	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 59.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	6437	wwPDB-VP
Average B, all atoms (Å ²)	78.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.44% 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: XF6

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	0.82	9/5331 (0.2%)	0.98	7/7232 (0.1%)
2	B	0.79	0/1091	1.10	1/1471 (0.1%)
All	All	0.81	9/6422 (0.1%)	1.00	8/8703 (0.1%)

All (9) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	470	PRO	C-O	-7.81	1.18	1.24
1	A	361	PRO	C-O	-6.83	1.16	1.23
1	A	801	GLU	C-O	-5.60	1.17	1.24
1	A	334	VAL	C-O	-5.52	1.18	1.24
1	A	794	PRO	C-O	-5.50	1.17	1.23
1	A	405	PRO	C-O	-5.46	1.17	1.23
1	A	468	VAL	C-O	-5.32	1.19	1.24
1	A	743	PRO	C-O	-5.27	1.17	1.23
1	A	371	PRO	C-O	-5.25	1.17	1.23

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	505	GLU	N-CA-C	-5.72	105.03	112.23
1	A	800	GLY	CA-C-O	-5.62	118.56	122.22
1	A	264	PHE	CA-C-N	-5.59	117.11	121.86
1	A	264	PHE	C-N-CA	-5.59	117.11	121.86
1	A	278	THR	CB-CA-C	-5.38	101.85	110.14
1	A	456	LYS	CB-CA-C	-5.20	102.71	110.88
2	B	351	ASN	CB-CA-C	-5.14	102.81	110.88
1	A	317	VAL	CA-C-O	-5.13	118.16	122.63

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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	5217	0	5252	216	0
2	B	1076	0	1091	74	0
3	A	144	0	0	8	0
All	All	6437	0	6343	261	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 20.

All (261) 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:A:438:GLN:OE1	1:A:508:LEU:CD1	1.93	1.16
1:A:374:LYS:NZ	1:A:525:ASP:OD1	1.85	1.07
1:A:438:GLN:OE1	1:A:508:LEU:HD12	1.58	1.04
1:A:437:THR:HG22	1:A:508:LEU:HD21	1.37	1.04
1:A:451:LEU:HD23	1:A:494:TYR:HB2	1.38	1.03
1:A:332:MET:HE2	1:A:661:LYS:NZ	1.81	0.95
1:A:332:MET:HE2	1:A:661:LYS:HZ1	1.32	0.95
1:A:437:THR:CG2	1:A:508:LEU:HD21	1.96	0.94
1:A:353:LEU:HB3	1:A:565:LEU:HD23	1.50	0.93
2:B:425:ARG:HA	2:B:430:ILE:HG13	1.53	0.91
1:A:449:VAL:HG23	2:B:363:LEU:HD21	1.51	0.90
1:A:439:GLU:HG2	2:B:352:ILE:CD1	2.01	0.90
1:A:356:ILE:HD11	1:A:566:THR:CG2	2.04	0.87
1:A:526:ARG:HH11	1:A:526:ARG:HG3	1.40	0.87
2:B:371:ARG:HG3	2:B:371:ARG:HH11	1.40	0.86
1:A:438:GLN:OE1	1:A:508:LEU:HD11	1.75	0.83
1:A:384:ARG:NH2	2:B:312:LYS:O	2.12	0.82
1:A:188:MET:HE2	1:A:210:PHE:CD2	2.14	0.81
1:A:437:THR:CG2	1:A:508:LEU:CD2	2.58	0.81
2:B:400:ARG:HH11	2:B:400:ARG:HG2	1.45	0.81
1:A:370:VAL:HG21	1:A:528:ILE:HD13	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:439:GLU:HG2	2:B:352:ILE:HD12	1.64	0.77
2:B:423:ASN:OD1	2:B:423:ASN:N	2.19	0.76
1:A:392:LEU:HD22	1:A:398:PHE:CD2	2.20	0.75
2:B:440:GLU:O	2:B:440:GLU:HG3	1.87	0.75
1:A:801:GLU:HG3	1:A:809:ALA:HA	1.68	0.75
1:A:661:LYS:HD3	1:A:704:LEU:HD21	1.68	0.75
1:A:437:THR:HG22	1:A:508:LEU:CD2	2.16	0.73
1:A:449:VAL:CG2	2:B:363:LEU:HD21	2.18	0.73
2:B:421:PHE:O	2:B:425:ARG:HB2	1.89	0.72
1:A:566:THR:HG21	1:A:697:LEU:HD22	1.72	0.72
1:A:460:GLN:NE2	1:A:460:GLN:HA	2.04	0.71
1:A:356:ILE:HD11	1:A:566:THR:HG23	1.70	0.70
1:A:437:THR:HG21	1:A:508:LEU:CD2	2.21	0.70
1:A:332:MET:CE	1:A:661:LYS:NZ	2.54	0.70
1:A:495:ASP:OD1	2:B:371:ARG:NH2	2.25	0.69
2:B:429:ASN:HD22	2:B:429:ASN:N	1.90	0.69
2:B:403:GLN:OE1	2:B:403:GLN:HA	1.89	0.69
1:A:495:ASP:CG	2:B:371:ARG:HH21	2.01	0.69
1:A:209:VAL:HG12	1:A:242:TYR:HD2	1.58	0.69
1:A:662:VAL:HG13	1:A:748:VAL:HG22	1.75	0.68
1:A:378:VAL:HG21	1:A:528:ILE:CG2	2.24	0.68
1:A:526:ARG:HH11	1:A:526:ARG:CG	2.06	0.67
1:A:286:SER:OG	1:A:308:GLU:OE1	2.08	0.67
1:A:463:LYS:O	1:A:467:GLU:HG2	1.94	0.67
2:B:419:ASN:O	2:B:423:ASN:OD1	2.13	0.67
1:A:362:LEU:HD11	1:A:531:TRP:CE2	2.28	0.67
1:A:374:LYS:NZ	1:A:525:ASP:CG	2.51	0.67
1:A:356:ILE:CD1	1:A:566:THR:HG23	2.24	0.67
1:A:231:PHE:HE1	1:A:249:VAL:HG12	1.60	0.66
1:A:437:THR:HG21	1:A:508:LEU:HD23	1.76	0.66
1:A:672:ASP:HB3	1:A:675:VAL:HG12	1.78	0.66
1:A:449:VAL:HG23	2:B:363:LEU:CD2	2.26	0.66
2:B:395:ILE:HG22	2:B:433:VAL:HG12	1.77	0.66
1:A:441:LEU:HD23	2:B:356:ASN:HD22	1.62	0.65
2:B:350:GLN:OE1	2:B:350:GLN:HA	1.94	0.65
1:A:332:MET:HG3	1:A:333:VAL:HG23	1.78	0.65
1:A:370:VAL:HG21	1:A:528:ILE:CD1	2.25	0.64
2:B:317:SER:O	2:B:321:VAL:HG23	1.98	0.64
1:A:366:ASN:OD1	1:A:367:GLY:N	2.31	0.64
1:A:654:MET:HE1	1:A:776:MET:CG	2.28	0.63
1:A:801:GLU:HG3	1:A:809:ALA:CA	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:378:VAL:HG21	1:A:528:ILE:HG21	1.82	0.62
1:A:214:ARG:HG2	1:A:214:ARG:HH11	1.64	0.62
2:B:395:ILE:HG22	2:B:433:VAL:CG1	2.30	0.62
2:B:371:ARG:HH11	2:B:371:ARG:CG	2.09	0.61
1:A:332:MET:CE	1:A:661:LYS:HZ3	2.11	0.61
1:A:495:ASP:OD2	2:B:371:ARG:NH2	2.32	0.61
1:A:495:ASP:CG	2:B:371:ARG:NH2	2.59	0.61
1:A:755:PRO:HA	1:A:758:ARG:HE	1.65	0.60
1:A:193:ALA:HB2	1:A:200:ILE:HD13	1.82	0.60
1:A:317:VAL:HG12	1:A:317:VAL:O	2.02	0.60
1:A:435:VAL:CG1	2:B:349:ILE:HG13	2.32	0.60
1:A:206:THR:HA	1:A:209:VAL:HG23	1.83	0.60
1:A:235:LEU:HD21	1:A:246:THR:HG22	1.83	0.59
1:A:439:GLU:CG	2:B:352:ILE:HD12	2.32	0.59
1:A:832:ALA:O	1:A:835:THR:HG22	2.03	0.59
1:A:564:HIS:C	1:A:565:LEU:HD12	2.27	0.59
1:A:255:TYR:CD2	1:A:256:LEU:HD23	2.37	0.59
1:A:801:GLU:CG	1:A:809:ALA:H	2.16	0.59
2:B:411:ASN:O	2:B:412:LYS:HD2	2.02	0.58
1:A:671:TRP:O	1:A:673:PRO:HD3	2.03	0.58
2:B:400:ARG:HG2	2:B:400:ARG:NH1	2.12	0.58
1:A:439:GLU:CG	2:B:352:ILE:CD1	2.79	0.58
1:A:353:LEU:HD13	1:A:565:LEU:HD22	1.84	0.57
1:A:214:ARG:HG2	1:A:214:ARG:NH1	2.19	0.57
1:A:475:THR:HA	2:B:393:GLN:HE22	1.69	0.56
3:A:901[B]:XF6:S1	3:A:901[B]:XF6:C6	2.93	0.56
1:A:296:GLN:O	1:A:299:SER:HB3	2.06	0.56
1:A:209:VAL:CG1	1:A:242:TYR:HD2	2.17	0.56
1:A:722:VAL:O	1:A:726:ARG:HG3	2.06	0.56
1:A:286:SER:N	1:A:308:GLU:OE1	2.36	0.56
1:A:320:PHE:CD1	1:A:747:VAL:HG11	2.41	0.56
1:A:284:ILE:HD13	1:A:590:VAL:HG11	1.88	0.55
1:A:762:SER:OG	1:A:801:GLU:OE2	2.15	0.55
1:A:742:GLN:OE1	1:A:742:GLN:HA	2.06	0.55
1:A:214:ARG:HH11	1:A:214:ARG:CG	2.20	0.55
1:A:266:ILE:HD11	1:A:578:LEU:HD23	1.88	0.55
3:A:901[A]:XF6:C9	3:A:901[A]:XF6:C38	2.85	0.54
1:A:654:MET:HE1	1:A:776:MET:HG2	1.88	0.54
2:B:324:VAL:HG13	2:B:331:ALA:HB2	1.89	0.54
1:A:188:MET:HE2	1:A:210:PHE:CE2	2.43	0.54
1:A:356:ILE:HD11	1:A:566:THR:HG22	1.86	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:424:TYR:N	2:B:424:TYR:CD2	2.76	0.54
2:B:368:GLU:HA	2:B:368:GLU:OE1	2.06	0.54
1:A:356:ILE:HG22	1:A:356:ILE:O	2.07	0.54
1:A:456:LYS:HA	2:B:370:TYR:CE1	2.43	0.54
1:A:316:ARG:N	3:A:901[A]:XF6:O11	2.36	0.53
1:A:316:ARG:N	3:A:901[B]:XF6:O11	2.36	0.53
1:A:694:PHE:HB3	1:A:703:LEU:HD12	1.89	0.53
1:A:801:GLU:O	1:A:801:GLU:HG2	2.04	0.53
2:B:348:GLN:HE21	2:B:348:GLN:HA	1.73	0.53
1:A:352:GLU:HG2	1:A:568:ARG:HB3	1.91	0.53
1:A:366:ASN:OD1	1:A:368:GLN:N	2.42	0.53
1:A:345:VAL:O	1:A:349:VAL:HG12	2.09	0.53
1:A:353:LEU:HB3	1:A:565:LEU:CD2	2.33	0.52
1:A:801:GLU:HG2	1:A:809:ALA:H	1.75	0.52
1:A:188:MET:CE	1:A:210:PHE:CD2	2.90	0.52
1:A:392:LEU:CD2	1:A:398:PHE:CB	2.87	0.52
1:A:695:TRP:HE3	1:A:697:LEU:HD21	1.75	0.51
1:A:715:MET:HE3	1:A:723:ILE:HG12	1.92	0.51
1:A:364:GLU:HA	1:A:681:VAL:HB	1.92	0.51
1:A:728:LEU:O	1:A:732:LYS:HG3	2.11	0.51
1:A:255:TYR:HD2	1:A:256:LEU:HD23	1.75	0.51
1:A:665:CYS:O	1:A:744:LYS:N	2.41	0.51
2:B:429:ASN:HD22	2:B:429:ASN:H	1.57	0.51
1:A:755:PRO:HA	1:A:758:ARG:HH21	1.76	0.51
1:A:707:VAL:HG12	1:A:712:ALA:HA	1.91	0.51
1:A:592:GLN:HG3	1:A:638:GLN:HB3	1.92	0.51
1:A:231:PHE:CE1	1:A:249:VAL:HG12	2.44	0.50
2:B:327:ASN:OD1	2:B:330:ALA:N	2.44	0.50
2:B:348:GLN:HA	2:B:348:GLN:NE2	2.26	0.50
2:B:383:TRP:CE2	2:B:412:LYS:NZ	2.79	0.50
2:B:429:ASN:N	2:B:429:ASN:ND2	2.60	0.49
2:B:368:GLU:N	2:B:369:PRO:CD	2.76	0.49
1:A:801:GLU:HG3	1:A:809:ALA:N	2.28	0.49
2:B:370:TYR:N	2:B:370:TYR:CD2	2.81	0.49
1:A:370:VAL:CG2	1:A:528:ILE:CD1	2.90	0.49
2:B:369:PRO:HB2	2:B:370:TYR:CE2	2.48	0.49
1:A:718:ILE:HG22	1:A:723:ILE:HG13	1.94	0.49
1:A:456:LYS:HG2	2:B:370:TYR:CE1	2.48	0.48
1:A:568:ARG:NH1	1:A:699:LYS:HG2	2.29	0.48
2:B:363:LEU:HD23	2:B:363:LEU:N	2.26	0.48
1:A:583:ASP:OD1	1:A:585:LYS:NZ	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:780:ILE:HB	1:A:796:LEU:HB3	1.95	0.48
1:A:392:LEU:HD22	1:A:398:PHE:HB3	1.94	0.48
1:A:315:GLY:HA3	3:A:901[A]:XF6:O11	2.13	0.48
2:B:371:ARG:CG	2:B:371:ARG:NH1	2.72	0.48
1:A:442:LYS:N	2:B:356:ASN:HD21	2.11	0.48
1:A:691:LEU:CD2	1:A:727:CYS:SG	3.01	0.48
1:A:315:GLY:HA3	3:A:901[B]:XF6:O11	2.13	0.47
1:A:695:TRP:CE3	1:A:697:LEU:HD11	2.49	0.47
2:B:404:ALA:O	2:B:407:ASP:N	2.45	0.47
1:A:205:GLN:OE1	1:A:205:GLN:HA	2.14	0.47
1:A:319:THR:OG1	1:A:572:SER:HB3	2.14	0.47
1:A:370:VAL:CG2	1:A:528:ILE:HD11	2.44	0.47
1:A:458:LEU:HD23	1:A:458:LEU:HA	1.61	0.47
1:A:671:TRP:CD2	1:A:703:LEU:HD21	2.49	0.47
1:A:419:GLN:NE2	2:B:314:MET:HA	2.29	0.47
1:A:270:ILE:O	1:A:272:PRO:HD3	2.14	0.47
1:A:737:SER:O	1:A:737:SER:OG	2.33	0.47
1:A:283:ILE:HD12	1:A:294:ALA:HB2	1.97	0.47
1:A:486:ASP:OD1	2:B:398:TYR:OH	2.32	0.46
2:B:369:PRO:HB2	2:B:370:TYR:CD2	2.51	0.46
1:A:619:ASP:O	1:A:795:ARG:NH1	2.41	0.46
2:B:424:TYR:N	2:B:424:TYR:HD2	2.13	0.46
1:A:325:TYR:CE2	1:A:665:CYS:HB3	2.50	0.46
1:A:371:PRO:HG2	1:A:374:LYS:HB2	1.97	0.46
1:A:601:GLU:HA	1:A:616:TYR:O	2.16	0.46
1:A:392:LEU:HD22	1:A:398:PHE:CG	2.50	0.46
1:A:786:ILE:H	1:A:786:ILE:HD12	1.80	0.46
1:A:392:LEU:CD2	1:A:398:PHE:HB3	2.46	0.46
1:A:392:LEU:HD22	1:A:398:PHE:CB	2.46	0.46
1:A:693:LEU:HD12	1:A:694:PHE:H	1.81	0.46
1:A:492:LYS:O	1:A:496:GLU:HG3	2.15	0.45
1:A:595:TYR:CZ	1:A:641:PRO:HD2	2.51	0.45
1:A:761:TYR:CD1	1:A:809:ALA:HB1	2.51	0.45
1:A:286:SER:CB	1:A:308:GLU:OE1	2.64	0.45
1:A:332:MET:CG	1:A:333:VAL:HG23	2.46	0.45
1:A:188:MET:HE1	1:A:199:ILE:CG2	2.47	0.45
1:A:421:LYS:NZ	2:B:320:ASP:OD2	2.50	0.45
2:B:437:TRP:O	2:B:437:TRP:CG	2.70	0.45
1:A:188:MET:SD	1:A:200:ILE:HB	2.56	0.45
1:A:732:LYS:O	1:A:736:GLY:N	2.49	0.45
2:B:327:ASN:OD1	2:B:329:THR:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:453:GLU:N	1:A:453:GLU:OE1	2.50	0.45
2:B:368:GLU:HB2	2:B:369:PRO:HD3	1.98	0.45
1:A:336:GLY:HA2	1:A:563:SER:O	2.17	0.45
1:A:744:LYS:N	1:A:744:LYS:HD3	2.31	0.44
3:A:901[A]:XF6:C9	3:A:901[A]:XF6:C37	2.95	0.44
1:A:451:LEU:CD2	1:A:494:TYR:HB2	2.27	0.44
1:A:654:MET:HE1	1:A:776:MET:SD	2.58	0.44
1:A:833:MET:H	1:A:833:MET:HG2	1.60	0.44
1:A:424:LYS:HE3	2:B:339:ASP:CG	2.43	0.44
1:A:568:ARG:CZ	1:A:699:LYS:HG2	2.48	0.44
2:B:413:SER:O	2:B:417:VAL:HG23	2.18	0.44
1:A:457:GLU:OE2	1:A:461:GLN:NE2	2.50	0.43
1:A:474:ILE:HD12	1:A:474:ILE:HA	1.88	0.43
1:A:654:MET:HE3	1:A:654:MET:HB2	1.85	0.43
1:A:770:GLY:O	1:A:805:ARG:HG3	2.18	0.43
1:A:419:GLN:HE22	2:B:314:MET:HA	1.83	0.43
1:A:424:LYS:HE3	2:B:339:ASP:OD1	2.17	0.43
1:A:503:LYS:O	1:A:506:GLU:HG2	2.18	0.43
1:A:801:GLU:HG3	1:A:809:ALA:H	1.84	0.43
2:B:315:PHE:C	2:B:316:LEU:HD23	2.44	0.43
1:A:268:LYS:HA	1:A:268:LYS:HD2	1.76	0.43
1:A:268:LYS:HD2	1:A:269:ARG:H	1.83	0.43
1:A:435:VAL:HG12	2:B:349:ILE:HG13	2.01	0.43
1:A:439:GLU:OE1	2:B:352:ILE:HD11	2.18	0.43
2:B:402:PHE:CD1	2:B:402:PHE:N	2.85	0.43
1:A:209:VAL:CG1	1:A:242:TYR:CD2	2.99	0.43
1:A:198:ASP:OD1	1:A:198:ASP:N	2.52	0.42
1:A:248:LEU:HA	1:A:248:LEU:HD12	1.59	0.42
1:A:455:ILE:HD11	1:A:490:LEU:O	2.18	0.42
1:A:258:ARG:HG2	1:A:834:TYR:OH	2.19	0.42
1:A:308:GLU:HB3	1:A:586:LEU:HD23	2.00	0.42
1:A:547:LEU:HD23	1:A:547:LEU:HA	1.87	0.42
1:A:370:VAL:HG22	1:A:528:ILE:HD11	2.02	0.42
1:A:311:ASP:N	1:A:311:ASP:OD1	2.40	0.42
1:A:431:TRP:HE3	2:B:349:ILE:CD1	2.33	0.42
1:A:188:MET:HG2	1:A:210:PHE:HE2	1.85	0.42
1:A:449:VAL:HA	2:B:363:LEU:HD21	2.02	0.41
1:A:438:GLN:CD	1:A:508:LEU:HD11	2.42	0.41
1:A:326:VAL:HG23	1:A:326:VAL:O	2.19	0.41
1:A:401:LEU:HA	1:A:401:LEU:HD23	1.68	0.41
1:A:789:ALA:HB1	1:A:790:PRO:HD2	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:436:LYS:O	1:A:440:GLU:HG3	2.20	0.41
1:A:449:VAL:CG2	2:B:363:LEU:CD2	2.92	0.41
1:A:567:VAL:HG21	1:A:571:TYR:CD1	2.56	0.41
1:A:791:GLN:HE21	1:A:791:GLN:HB2	1.57	0.41
1:A:378:VAL:HG21	1:A:528:ILE:HG22	2.00	0.41
1:A:384:ARG:HB3	2:B:314:MET:HE2	2.03	0.41
1:A:432:LYS:HA	1:A:435:VAL:HG22	2.01	0.41
1:A:526:ARG:CG	1:A:526:ARG:NH1	2.73	0.41
1:A:763:TYR:CD1	1:A:763:TYR:C	2.97	0.41
1:A:780:ILE:HD12	1:A:780:ILE:HG23	1.79	0.41
1:A:383:ASN:O	1:A:387:GLU:HG3	2.21	0.41
1:A:445:LEU:HB2	2:B:359:LEU:HD12	2.02	0.41
1:A:706:LEU:HD23	1:A:706:LEU:HA	1.85	0.41
2:B:383:TRP:CZ2	2:B:420:PHE:HB2	2.55	0.41
1:A:188:MET:HE1	1:A:199:ILE:HG22	2.02	0.41
1:A:503:LYS:HA	1:A:506:GLU:HG2	2.02	0.41
1:A:691:LEU:HA	1:A:706:LEU:O	2.21	0.41
3:A:901[A]:XF6:O17	3:A:901[A]:XF6:C11	2.69	0.41
1:A:188:MET:HG2	1:A:210:PHE:CE2	2.56	0.41
1:A:656:PHE:O	1:A:752:ARG:NH2	2.54	0.41
1:A:439:GLU:HG2	2:B:352:ILE:HD13	1.97	0.40
1:A:469:LYS:HA	1:A:470:PRO:HD3	1.81	0.40
2:B:427:ARG:HE	2:B:427:ARG:HB2	1.81	0.40
1:A:458:LEU:HB3	1:A:487:LEU:HD12	2.04	0.40
1:A:742:GLN:OE1	1:A:742:GLN:CA	2.69	0.40
1:A:782:PRO:HG3	1:A:795:ARG:HG3	2.04	0.40
1:A:216:ARG:O	1:A:220:LEU:HD12	2.21	0.40
1:A:273:LEU:HD23	1:A:273:LEU:HA	1.95	0.40
1:A:537:GLU:HG2	1:A:544:LEU:HG	2.02	0.40
1:A:646:TRP:CZ3	1:A:647:LYS:HE2	2.57	0.40
1:A:719:SER:OG	1:A:722:VAL:HG23	2.21	0.40
1:A:755:PRO:CA	1:A:758:ARG:HH21	2.34	0.40
1:A:231:PHE:CZ	1:A:250:HIS:HB2	2.57	0.40
1:A:384:ARG:HB3	2:B:314:MET:CE	2.52	0.40
1:A:663:VAL:HB	1:A:747:VAL:CG2	2.52	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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	664/871 (76%)	635 (96%)	28 (4%)	1 (0%)	43	72
2	B	131/144 (91%)	126 (96%)	5 (4%)	0	100	100
All	All	795/1015 (78%)	761 (96%)	33 (4%)	1 (0%)	48	77

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	323	GLY

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	566/715 (79%)	530 (94%)	36 (6%)	16	44
2	B	117/125 (94%)	98 (84%)	19 (16%)	2	8
All	All	683/840 (81%)	628 (92%)	55 (8%)	11	33

All (55) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	208	LYS
1	A	209	VAL
1	A	214	ARG
1	A	281	VAL
1	A	351	MET

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Mol	Chain	Res	Type
1	A	352	GLU
1	A	356	ILE
1	A	392	LEU
1	A	401	LEU
1	A	421	LYS
1	A	426	GLU
1	A	429	GLU
1	A	449	VAL
1	A	452	LYS
1	A	453	GLU
1	A	454	LYS
1	A	456	LYS
1	A	457	GLU
1	A	458	LEU
1	A	461	GLN
1	A	463	LYS
1	A	466	SER
1	A	467	GLU
1	A	472	ARG
1	A	479	LEU
1	A	482	SER
1	A	508	LEU
1	A	526	ARG
1	A	528	ILE
1	A	615	ILE
1	A	734	ILE
1	A	742	GLN
1	A	744	LYS
1	A	793	ILE
1	A	801	GLU
1	A	833	MET
2	B	343	VAL
2	B	344	SER
2	B	345	VAL
2	B	349	ILE
2	B	350	GLN
2	B	351	ASN
2	B	352	ILE
2	B	353	LYS
2	B	371	ARG
2	B	389	LEU
2	B	400	ARG

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Mol	Chain	Res	Type
2	B	403	GLN
2	B	405	ILE
2	B	423	ASN
2	B	427	ARG
2	B	429	ASN
2	B	430	ILE
2	B	438	GLU
2	B	440	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (17) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	180	GLN
1	A	259	HIS
1	A	296	GLN
1	A	383	ASN
1	A	395	GLN
1	A	399	ASN
1	A	402	ASN
1	A	417	GLN
1	A	460	GLN
1	A	632	GLN
1	A	791	GLN
1	A	812	HIS
2	B	318	GLN
2	B	337	GLN
2	B	348	GLN
2	B	393	GLN
2	B	429	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

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](#)

2 ligands are modelled in this entry.

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	XF6	A	901[B]	-	79,79,79	1.09	6 (7%)	105,119,119	0.81	2 (1%)
3	XF6	A	901[A]	-	79,79,79	1.08	6 (7%)	105,119,119	0.87	2 (1%)

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	XF6	A	901[B]	-	-	16/51/99/99	0/7/8/8
3	XF6	A	901[A]	-	-	19/51/99/99	0/7/8/8

All (12) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	901[A]	XF6	C38-C37	-4.65	1.48	1.52
3	A	901[B]	XF6	C38-C37	-4.56	1.48	1.52
3	A	901[A]	XF6	C35-N5	-2.59	1.34	1.38
3	A	901[B]	XF6	C35-N5	-2.53	1.34	1.38
3	A	901[B]	XF6	C38-N4	-2.48	1.45	1.47
3	A	901[B]	XF6	C36-N11	-2.48	1.31	1.36
3	A	901[A]	XF6	C36-N11	-2.47	1.31	1.36
3	A	901[B]	XF6	C13-C14	-2.40	1.36	1.39
3	A	901[A]	XF6	C13-C14	-2.33	1.36	1.39
3	A	901[A]	XF6	C38-N4	-2.16	1.45	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	901[B]	XF6	C20-C21	-2.09	1.49	1.52
3	A	901[A]	XF6	C20-C21	-2.03	1.49	1.52

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	901[A]	XF6	C3-S1-C2	-4.69	84.96	88.39
3	A	901[B]	XF6	C37-N12-C36	-3.87	119.59	125.42
3	A	901[A]	XF6	C37-N12-C36	-3.73	119.79	125.42
3	A	901[B]	XF6	C3-S1-C2	-2.74	86.38	88.39

There are no chirality outliers.

All (35) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	901[A]	XF6	C5-C4-N3-C3
3	A	901[A]	XF6	O1-C4-N3-C3
3	A	901[A]	XF6	C10-C11-N4-C12
3	A	901[A]	XF6	C10-C11-N4-C38
3	A	901[A]	XF6	O2-C11-N4-C12
3	A	901[A]	XF6	O2-C11-N4-C38
3	A	901[A]	XF6	C11-C10-C9-C8
3	A	901[A]	XF6	N2-C3-N3-C4
3	A	901[A]	XF6	S1-C3-N3-C4
3	A	901[A]	XF6	C22-C23-C24-O6
3	A	901[A]	XF6	O5-C23-C24-O6
3	A	901[A]	XF6	C25-O12-P2-O9
3	A	901[A]	XF6	C24-O6-P1-O8
3	A	901[B]	XF6	C5-C4-N3-C3
3	A	901[B]	XF6	O1-C4-N3-C3
3	A	901[B]	XF6	C10-C11-N4-C12
3	A	901[B]	XF6	O2-C11-N4-C12
3	A	901[B]	XF6	N2-C3-N3-C4
3	A	901[B]	XF6	S1-C3-N3-C4
3	A	901[B]	XF6	C22-C23-C24-O6
3	A	901[B]	XF6	O5-C23-C24-O6
3	A	901[B]	XF6	C25-O12-P2-O9
3	A	901[B]	XF6	C24-O6-P1-O8
3	A	901[A]	XF6	C9-C10-C11-N4
3	A	901[A]	XF6	C9-C10-C11-O2
3	A	901[A]	XF6	C25-O12-P2-O11
3	A	901[B]	XF6	C25-O12-P2-O11

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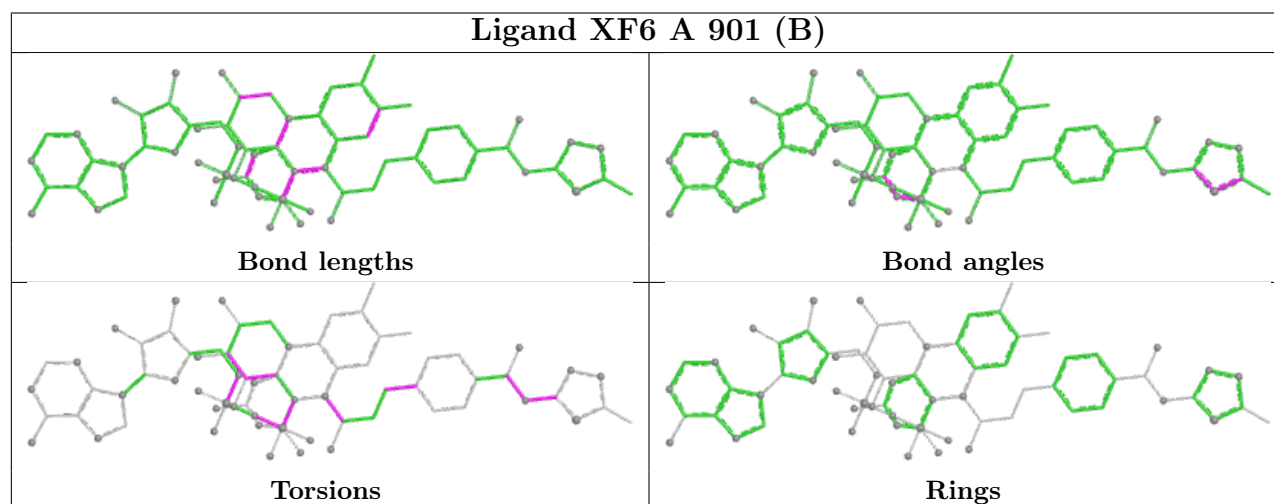
Mol	Chain	Res	Type	Atoms
3	A	901[B]	XF6	O2-C11-N4-C38
3	A	901[B]	XF6	C39-C8-C9-C10
3	A	901[A]	XF6	O4-C22-C23-C24
3	A	901[B]	XF6	O4-C22-C23-C24
3	A	901[B]	XF6	C7-C8-C9-C10
3	A	901[A]	XF6	C7-C8-C9-C10
3	A	901[A]	XF6	P2-O9-P1-O7
3	A	901[B]	XF6	P2-O9-P1-O7

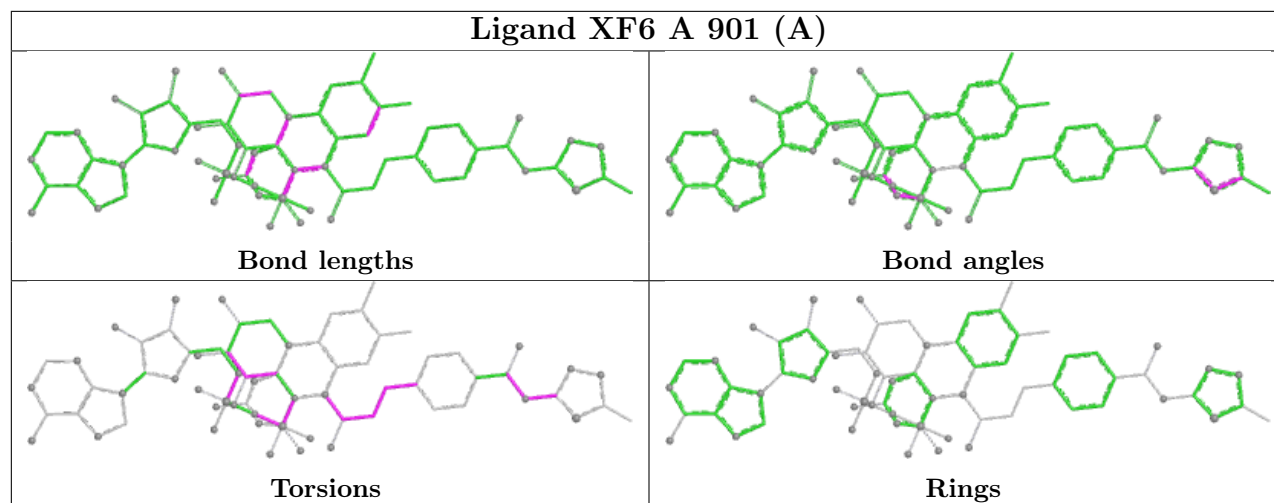
There are no ring outliers.

2 monomers are involved in 8 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	901[B]	XF6	3	0
3	A	901[A]	XF6	5	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 [i](#)

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	666/871 (76%)	0.49	38 (5%) 29 23	41, 72, 107, 132	0
2	B	133/144 (92%)	1.16	21 (15%) 5 4	67, 101, 129, 142	0
All	All	799/1015 (78%)	0.60	59 (7%) 20 17	41, 77, 115, 142	0

All (59) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	836	LEU	8.3
2	B	376	ILE	5.5
2	B	439	ALA	4.3
1	A	835	THR	4.3
1	A	271	LYS	4.1
1	A	171	PRO	4.0
2	B	424	TYR	3.8
2	B	380	ASN	3.5
2	B	315	PHE	3.3
2	B	375	VAL	3.3
1	A	275	THR	3.3
1	A	512	GLU	3.2
2	B	308	ARG	3.2
2	B	382	ARG	3.2
1	A	272	PRO	3.1
2	B	431	ASP	3.0
1	A	834	TYR	2.9
1	A	440	GLU	2.9
2	B	340	MET	2.8
1	A	683	SER	2.8
1	A	453	GLU	2.8
1	A	786	ILE	2.7
2	B	383	TRP	2.7
1	A	557	ASP	2.7

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Mol	Chain	Res	Type	RSRZ
1	A	467	GLU	2.7
2	B	374	GLU	2.7
1	A	791	GLN	2.6
1	A	172	SER	2.5
2	B	378	LYS	2.5
1	A	508	LEU	2.5
1	A	785	SER	2.5
1	A	206	THR	2.5
1	A	276	LYS	2.5
1	A	507	LYS	2.4
1	A	273	LEU	2.4
2	B	336	ARG	2.4
2	B	426	ARG	2.4
1	A	324	ASN	2.4
1	A	269	ARG	2.3
1	A	667	ASP	2.3
1	A	518	ASP	2.3
2	B	440	GLU	2.3
1	A	373	GLU	2.3
2	B	412	LYS	2.3
1	A	833	MET	2.2
2	B	361	GLU	2.2
1	A	771	ASN	2.2
2	B	373	PRO	2.2
2	B	381	ALA	2.2
1	A	432	LYS	2.1
1	A	702	ILE	2.1
1	A	556	ASP	2.1
1	A	793	ILE	2.1
1	A	509	GLN	2.1
1	A	774	ASP	2.1
1	A	402	ASN	2.0
1	A	682	GLY	2.0
1	A	573	CYS	2.0
2	B	414	VAL	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](#)

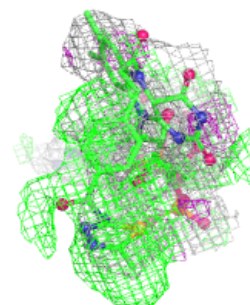
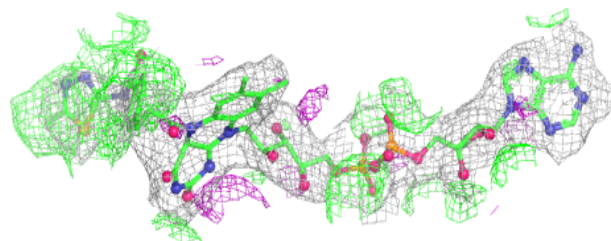
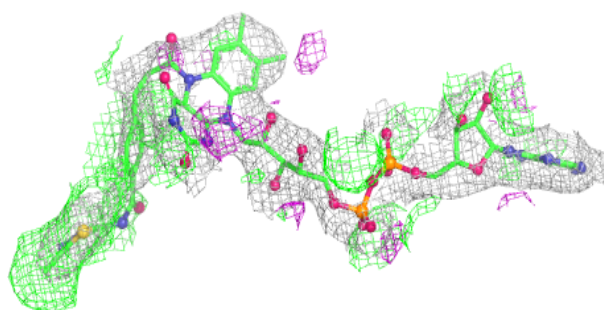
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
3	XF6	A	901[A]	72/72	0.89	0.19	46,61,87,104	72
3	XF6	A	901[B]	72/72	0.89	0.19	46,61,88,104	72

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.

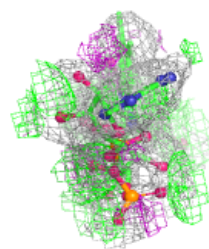
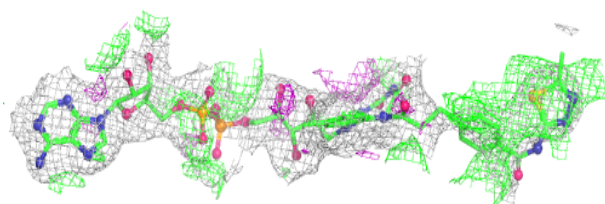
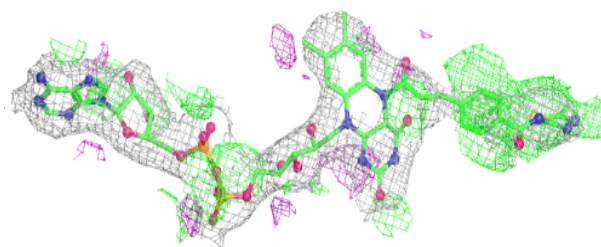
Electron density around XF6 A 901 (A):

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 XF6 A 901 (B):

$2mF_o-DF_c$ (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.