



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2026 – 10:23 AM UTC

PDB ID : 4DTC / pdb_00004dtc
Title : Crystal Structure of DPP-IV with Compound C5
Authors : Xiong, B.; Zhu, L.R.; Chen, D.Q.; Zhao, Y.L.; Jiang, F.; Shen, J.K.
Deposited on : 2012-02-21
Resolution : 3.00 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

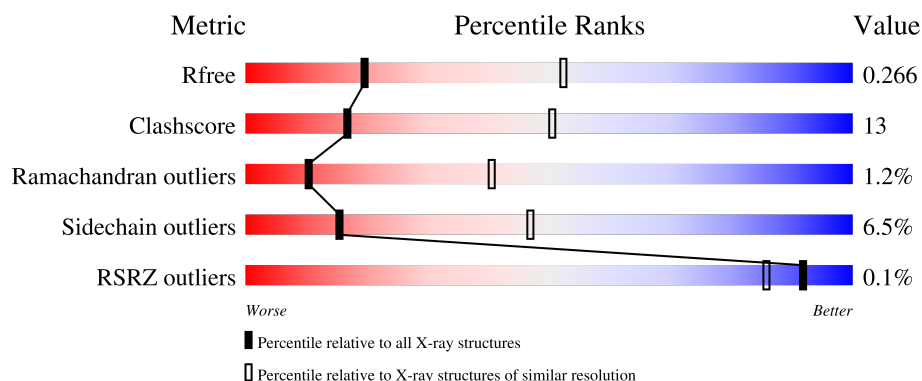
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.00 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	2672 (3.00-3.00)
Clashscore	190562	2977 (3.00-3.00)
Ramachandran outliers	187476	2877 (3.00-3.00)
Sidechain outliers	187428	2880 (3.00-3.00)
RSRZ outliers	180081	2671 (3.00-3.00)

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	728	 66% 32% .
1	B	728	 67% 30% .

2 Entry composition [i](#)

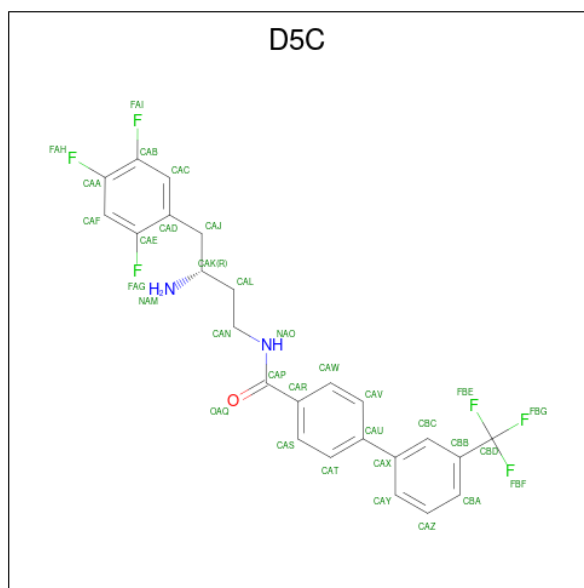
There are 2 unique types of molecules in this entry. The entry contains 11992 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Dipeptidyl peptidase 4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	728	Total	C	N	O	S	0	0	0
			5963	3827	982	1128	26			
1	B	728	Total	C	N	O	S	0	0	0
			5963	3827	982	1128	26			

- Molecule 2 is N-[(3R)-3-amino-4-(2,4,5-trifluorophenyl)butyl]-3'-(trifluoromethyl)biphenyl-4-carboxamide (CCD ID: D5C) (formula: C₂₄H₂₀F₆N₂O).

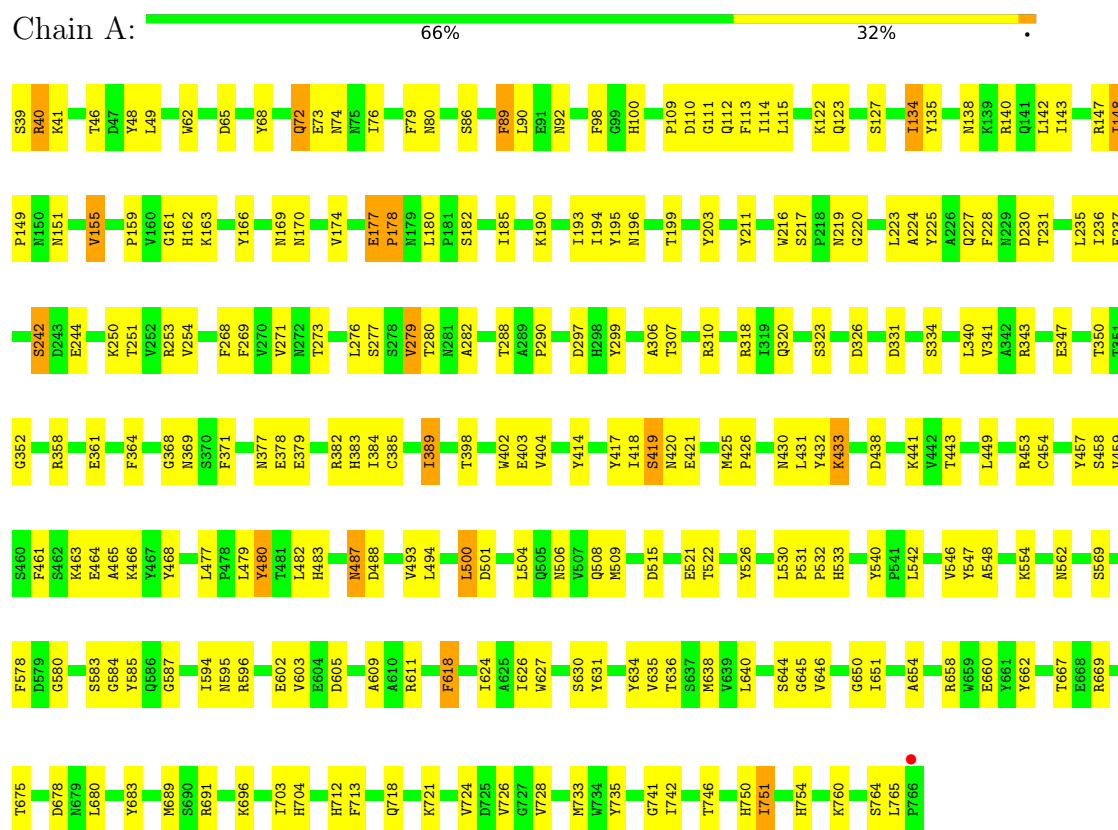


Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	A	1	Total	C	F	N	O	0	0
			33	24	6	2	1		
2	B	1	Total	C	F	N	O	0	0
			33	24	6	2	1		

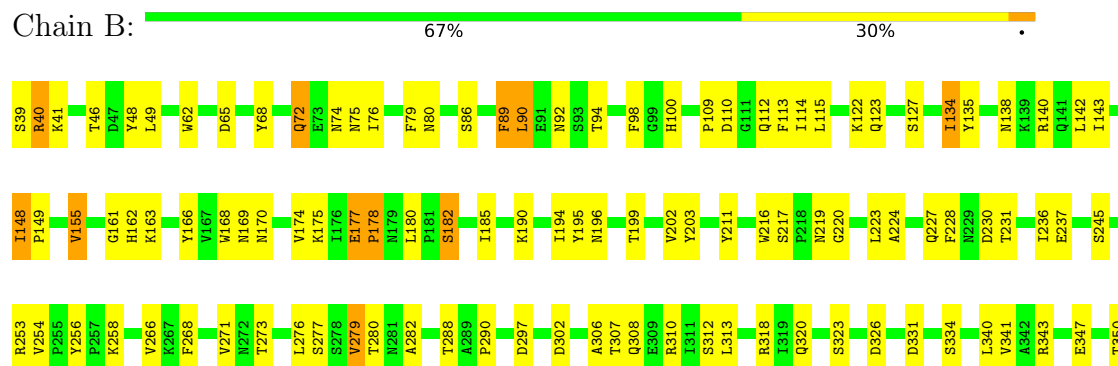
3 Residue-property plots

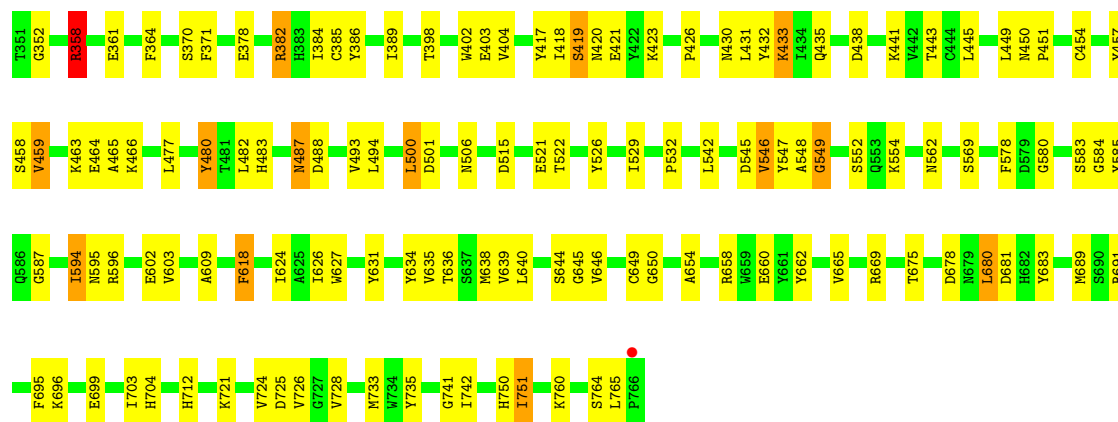
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. 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: Dipeptidyl peptidase 4



• Molecule 1: Dipeptidyl peptidase 4





4 Data and refinement statistics

Property	Value	Source
Space group	P 32	Depositor
Cell constants a, b, c, α , β , γ	80.47Å 80.47Å 290.90Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	29.89 – 3.00 29.89 – 3.00	Depositor EDS
% Data completeness (in resolution range)	98.3 (29.89-3.00) 98.3 (29.89-3.00)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.83 (at 3.00Å)	Xtriage
Refinement program	REFMAC 5.6.0117	Depositor
R, R_{free}	0.206 , 0.268 0.202 , 0.266	Depositor DCC
R_{free} test set	2126 reflections (5.05%)	wwPDB-VP
Wilson B-factor (Å ²)	88.4	Xtriage
Anisotropy	0.176	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.30 , 52.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.001 for -h,-k,l 0.099 for h,-h-k,-l 0.028 for -k,-h,-l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	11992	wwPDB-VP
Average B, all atoms (Å ²)	107.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.39% 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 ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: D5C

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	0/6135	1.00	9/8344 (0.1%)
1	B	0.80	0/6135	0.98	13/8344 (0.2%)
All	All	0.81	0/12270	0.99	22/16688 (0.1%)

There are no bond length outliers.

All (22) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	177	GLU	CA-C-N	6.69	128.20	119.84
1	A	177	GLU	C-N-CA	6.69	128.20	119.84
1	B	681	ASP	N-CA-C	6.62	118.19	110.97
1	A	254	VAL	CA-C-N	6.33	127.76	119.84
1	A	254	VAL	C-N-CA	6.33	127.76	119.84
1	B	177	GLU	CA-C-N	6.20	127.59	119.84
1	B	177	GLU	C-N-CA	6.20	127.59	119.84
1	A	89	PHE	N-CA-C	-6.17	105.65	113.43
1	B	89	PHE	N-CA-C	-5.79	106.14	113.43
1	B	358	ARG	NE-CZ-NH2	5.72	124.35	119.20
1	B	521	GLU	N-CA-C	-5.65	104.80	112.26
1	B	695	PHE	N-CA-C	-5.54	106.29	113.16
1	A	509	MET	N-CA-C	5.48	116.60	109.64
1	B	549	GLY	CA-C-N	5.44	126.64	119.84
1	B	549	GLY	C-N-CA	5.44	126.64	119.84
1	A	696	LYS	N-CA-C	-5.44	105.51	111.82
1	B	696	LYS	N-CA-C	-5.39	105.56	111.82
1	A	521	GLU	N-CA-C	-5.35	104.32	111.87
1	B	546	VAL	N-CA-C	5.21	115.40	108.11
1	B	459	VAL	N-CA-C	5.17	116.10	108.45
1	A	459	VAL	N-CA-C	5.06	115.93	108.45
1	B	266	VAL	N-CA-C	5.00	115.32	108.12

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	5963	0	5685	155	0
1	B	5963	0	5685	151	0
2	A	33	0	20	4	0
2	B	33	0	20	2	0
All	All	11992	0	11410	300	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 13.

All (300) 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:74:ASN:HB2	1:A:92:ASN:HB2	1.55	0.87
1:B:74:ASN:HB2	1:B:92:ASN:HB2	1.56	0.87
1:B:352:GLY:HA2	1:B:595:ASN:ND2	1.95	0.81
1:B:352:GLY:HA2	1:B:595:ASN:HD22	1.45	0.80
1:A:420:ASN:HD22	1:A:426:PRO:HA	1.48	0.78
1:A:595:ASN:OD1	1:A:596:ARG:HG3	1.86	0.76
1:B:420:ASN:HD22	1:B:426:PRO:HA	1.49	0.76
1:A:352:GLY:HA2	1:A:595:ASN:HD22	1.50	0.76
1:B:114:ILE:HG22	1:B:135:TYR:HB3	1.66	0.76
1:B:595:ASN:OD1	1:B:596:ARG:HG3	1.86	0.76
1:A:237:GLU:HG2	1:A:253:ARG:HG2	1.67	0.74
1:A:352:GLY:HA2	1:A:595:ASN:ND2	2.04	0.73
1:A:596:ARG:NH2	1:A:678:ASP:OD1	2.23	0.71
1:B:596:ARG:NH2	1:B:678:ASP:OD1	2.23	0.71
1:B:237:GLU:HG2	1:B:253:ARG:HG2	1.73	0.70
1:A:358:ARG:HH21	2:A:801:D5C:CAZ	2.05	0.69
1:A:174:VAL:HG23	1:A:185:ILE:HD11	1.75	0.69
1:B:216:TRP:HZ3	1:B:273:THR:HG21	1.56	0.69
1:A:110:ASP:OD2	1:A:162:HIS:ND1	2.24	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:216:TRP:HZ3	1:A:273:THR:HG21	1.56	0.68
1:B:196:ASN:OD1	1:B:227:GLN:HG3	1.94	0.67
1:A:547:TYR:HB2	1:A:554:LYS:HE2	1.75	0.66
1:A:654:ALA:HA	1:A:704:HIS:CE1	2.30	0.66
1:A:114:ILE:HG22	1:A:135:TYR:HB3	1.77	0.66
1:B:546:VAL:HG21	1:B:626:ILE:HD11	1.79	0.65
1:B:134:ILE:HB	1:B:143:ILE:HD12	1.78	0.65
1:A:155:VAL:HG23	1:A:166:TYR:HB3	1.79	0.65
1:A:40:ARG:HH11	1:A:40:ARG:HB3	1.62	0.64
1:B:640:LEU:HD11	1:B:650:GLY:HA3	1.80	0.64
1:B:626:ILE:HG23	1:B:636:THR:HG23	1.79	0.64
1:B:276:LEU:HD21	1:B:282:ALA:HB2	1.80	0.64
1:B:547:TYR:HB2	1:B:554:LYS:HE2	1.80	0.64
1:B:123:GLN:HB3	1:B:127:SER:OG	1.99	0.63
1:B:549:GLY:O	1:B:552:SER:HB3	1.99	0.63
1:B:155:VAL:HG23	1:B:166:TYR:HB3	1.79	0.63
1:B:177:GLU:HB2	1:B:180:LEU:HD13	1.80	0.63
1:B:331:ASP:HB3	1:B:334:SER:HB3	1.79	0.63
1:A:134:ILE:HB	1:A:143:ILE:HD12	1.81	0.62
1:B:40:ARG:HH11	1:B:40:ARG:HB3	1.64	0.62
1:A:123:GLN:HB3	1:A:127:SER:OG	2.00	0.62
1:A:196:ASN:OD1	1:A:227:GLN:HG3	1.99	0.62
1:A:626:ILE:HG23	1:A:636:THR:HG23	1.82	0.62
1:B:110:ASP:OD2	1:B:162:HIS:ND1	2.25	0.62
1:A:290:PRO:HD3	1:A:326:ASP:OD2	2.00	0.61
1:B:113:PHE:CZ	1:B:178:PRO:HG2	2.35	0.61
1:B:170:ASN:O	1:B:196:ASN:HB2	2.01	0.60
2:A:801:D5C:H12	2:A:801:D5C:OAQ	2.01	0.60
1:A:79:PHE:HA	1:A:86:SER:CB	2.32	0.60
1:A:79:PHE:HA	1:A:86:SER:HB2	1.83	0.60
1:A:626:ILE:O	1:A:650:GLY:HA2	2.02	0.60
1:A:331:ASP:HB3	1:A:334:SER:HB3	1.82	0.59
1:A:163:LYS:NZ	1:A:220:GLY:O	2.29	0.59
1:A:320:GLN:OE1	1:A:669:ARG:HG3	2.02	0.58
1:B:580:GLY:O	1:B:583:SER:OG	2.18	0.58
1:A:340:LEU:HB2	1:A:343:ARG:HG2	1.84	0.58
1:A:420:ASN:ND2	1:A:426:PRO:HA	2.18	0.58
1:B:340:LEU:HB2	1:B:343:ARG:HG2	1.85	0.58
1:A:113:PHE:CZ	1:A:178:PRO:HG2	2.39	0.58
1:B:420:ASN:ND2	1:B:426:PRO:HA	2.18	0.58
1:B:202:VAL:HG21	1:B:665:VAL:HG23	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:726:VAL:O	1:B:726:VAL:HG12	2.02	0.57
1:B:169:ASN:O	1:B:170:ASN:HB2	2.05	0.57
1:B:358:ARG:HH21	2:B:801:D5C:CAZ	2.16	0.57
1:A:644:SER:O	1:A:646:VAL:N	2.37	0.57
1:A:177:GLU:HB2	1:A:180:LEU:HD13	1.87	0.56
1:A:735:TYR:CE2	1:A:751:ILE:HG13	2.40	0.56
1:B:79:PHE:HA	1:B:86:SER:CB	2.36	0.56
1:B:482:LEU:HB2	1:B:494:LEU:HD11	1.87	0.56
1:A:735:TYR:HE2	1:A:751:ILE:HG13	1.71	0.56
1:B:76:ILE:O	1:B:89:PHE:HB3	2.05	0.56
1:B:480:TYR:CD1	1:B:480:TYR:N	2.73	0.56
1:A:276:LEU:HD21	1:A:282:ALA:HB2	1.87	0.55
1:B:320:GLN:OE1	1:B:669:ARG:HG3	2.07	0.55
1:A:580:GLY:O	1:A:583:SER:OG	2.14	0.55
1:B:760:LYS:HG2	1:B:765:LEU:HB2	1.88	0.54
1:B:638:MET:O	1:B:691:ARG:NH1	2.40	0.54
1:A:431:LEU:HD12	1:A:432:TYR:H	1.72	0.54
1:A:169:ASN:O	1:A:170:ASN:HB2	2.07	0.54
1:A:358:ARG:HH21	2:A:801:D5C:CBA	2.20	0.54
1:A:418:ILE:HA	1:A:430:ASN:O	2.08	0.54
1:A:540:TYR:N	1:A:618:PHE:O	2.35	0.53
1:B:435:GLN:NE2	1:B:441:LYS:HD2	2.24	0.53
1:A:750:HIS:ND1	1:B:724:VAL:HG22	2.24	0.53
1:B:39:SER:HB3	1:B:506:ASN:O	2.08	0.53
1:B:297:ASP:HB3	1:B:318:ARG:HB2	1.91	0.53
1:B:312:SER:O	1:B:313:LEU:HD23	2.08	0.53
1:B:79:PHE:HA	1:B:86:SER:HB2	1.90	0.53
1:A:658:ARG:HB2	1:A:689:MET:HE1	1.90	0.53
1:B:48:TYR:CE1	1:B:562:ASN:HA	2.45	0.52
1:A:654:ALA:HA	1:A:704:HIS:ND1	2.23	0.52
1:B:542:LEU:HD22	1:B:624:ILE:HG23	1.92	0.52
1:A:724:VAL:HG22	1:B:750:HIS:ND1	2.24	0.52
1:A:704:HIS:HB3	1:A:713:PHE:CD1	2.45	0.52
1:A:76:ILE:O	1:A:89:PHE:HB3	2.10	0.52
1:B:431:LEU:HD12	1:B:432:TYR:N	2.25	0.52
1:B:463:LYS:C	1:B:465:ALA:H	2.17	0.52
1:B:403:GLU:OE2	1:B:587:GLY:HA2	2.09	0.51
1:A:463:LYS:C	1:A:465:ALA:H	2.18	0.51
1:A:68:TYR:CD1	1:A:68:TYR:C	2.89	0.51
1:B:532:PRO:HD3	1:B:569:SER:HA	1.93	0.51
1:A:323:SER:OG	1:A:347:GLU:HB3	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:403:GLU:OE2	1:A:587:GLY:HA2	2.10	0.51
1:A:482:LEU:C	1:A:483:HIS:CD2	2.89	0.51
1:A:62:TRP:CE3	1:A:68:TYR:HB3	2.45	0.51
1:B:548:ALA:HB3	1:B:635:VAL:HG21	1.91	0.51
1:A:40:ARG:HB3	1:A:40:ARG:NH1	2.25	0.50
1:B:236:ILE:HG12	1:B:712:HIS:CD2	2.46	0.50
1:B:431:LEU:HD12	1:B:432:TYR:H	1.76	0.50
1:B:98:PHE:HE2	1:B:100:HIS:HB2	1.77	0.50
1:B:163:LYS:NZ	1:B:220:GLY:O	2.36	0.50
1:B:654:ALA:HA	1:B:704:HIS:CE1	2.46	0.50
1:A:48:TYR:CE1	1:A:562:ASN:HA	2.47	0.50
1:A:482:LEU:HB2	1:A:494:LEU:HD11	1.94	0.50
1:A:143:ILE:HD13	1:A:178:PRO:O	2.12	0.50
1:A:155:VAL:HG23	1:A:166:TYR:CB	2.41	0.50
1:A:242:SER:O	1:B:721:LYS:NZ	2.38	0.50
1:B:658:ARG:HB2	1:B:689:MET:HE1	1.94	0.50
1:A:159:PRO:HD3	1:A:216:TRP:CG	2.48	0.49
1:A:414:TYR:CZ	1:A:433:LYS:HE2	2.47	0.49
1:A:39:SER:HB3	1:A:506:ASN:O	2.12	0.49
1:A:190:LYS:H	1:A:194:ILE:HB	1.78	0.49
1:B:62:TRP:CE3	1:B:68:TYR:HB3	2.47	0.49
1:A:297:ASP:HB3	1:A:318:ARG:HB2	1.94	0.49
1:B:741:GLY:O	1:B:742:ILE:C	2.55	0.49
1:A:480:TYR:CD1	1:A:480:TYR:N	2.81	0.49
1:B:482:LEU:C	1:B:483:HIS:CD2	2.91	0.49
1:A:631:TYR:O	1:A:634:TYR:HB3	2.13	0.49
1:B:68:TYR:CD1	1:B:68:TYR:C	2.90	0.49
1:A:65:ASP:O	1:A:466:LYS:HB2	2.13	0.48
1:B:454:CYS:HB3	1:B:457:TYR:CZ	2.49	0.48
1:A:112:GLN:HG2	1:A:138:ASN:OD1	2.13	0.48
1:A:199:THR:HG22	1:A:203:TYR:HB3	1.95	0.48
1:A:384:ILE:HG13	1:A:404:VAL:HG21	1.94	0.48
1:B:65:ASP:O	1:B:466:LYS:HB2	2.14	0.48
1:B:279:VAL:O	1:B:279:VAL:HG13	2.12	0.48
1:A:170:ASN:O	1:A:196:ASN:HB2	2.13	0.48
1:A:548:ALA:HB3	1:A:635:VAL:HG21	1.96	0.48
1:B:40:ARG:HB3	1:B:40:ARG:NH1	2.26	0.48
1:B:675:THR:C	1:B:680:LEU:HB2	2.38	0.48
1:A:542:LEU:HD22	1:A:624:ILE:HG23	1.96	0.48
1:A:115:LEU:HD21	1:A:155:VAL:CG1	2.44	0.48
1:A:431:LEU:HD12	1:A:432:TYR:N	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:340:LEU:CB	1:A:343:ARG:HG2	2.44	0.48
1:A:630:SER:O	1:A:631:TYR:C	2.57	0.47
1:B:340:LEU:HB2	1:B:343:ARG:CG	2.44	0.47
1:A:340:LEU:HB2	1:A:343:ARG:CG	2.43	0.47
1:A:546:VAL:HG21	1:A:626:ILE:HD11	1.97	0.47
1:A:640:LEU:HD11	1:A:650:GLY:HA3	1.96	0.47
1:A:704:HIS:CD2	1:A:713:PHE:HA	2.49	0.47
1:B:109:PRO:HD2	1:B:161:GLY:O	2.14	0.47
1:A:477:LEU:CD1	1:A:501:ASP:HB2	2.44	0.47
1:B:384:ILE:HG13	1:B:404:VAL:HG21	1.95	0.47
1:B:435:GLN:HE22	1:B:441:LYS:HD2	1.79	0.47
1:B:644:SER:O	1:B:646:VAL:N	2.47	0.47
1:A:425:MET:HA	1:A:426:PRO:HD3	1.81	0.47
1:A:726:VAL:HG12	1:A:726:VAL:O	2.14	0.47
1:B:190:LYS:H	1:B:194:ILE:HB	1.79	0.47
1:B:438:ASP:OD2	1:B:441:LYS:HG3	2.15	0.47
1:A:98:PHE:HE2	1:A:100:HIS:HB2	1.80	0.46
1:A:644:SER:C	1:A:646:VAL:H	2.23	0.46
1:A:383:HIS:ND1	1:A:398:THR:OG1	2.41	0.46
1:B:236:ILE:CG2	1:B:254:VAL:HB	2.46	0.46
1:A:578:PHE:CD2	1:A:609:ALA:HB2	2.51	0.46
1:A:216:TRP:CZ3	1:A:273:THR:HG21	2.45	0.46
1:A:704:HIS:HB3	1:A:713:PHE:HD1	1.81	0.46
1:A:148:ILE:HG22	1:A:149:PRO:HD2	1.98	0.46
1:A:532:PRO:HD3	1:A:569:SER:HA	1.97	0.46
1:B:127:SER:HB2	1:B:211:TYR:CD2	2.51	0.46
1:B:450:ASN:O	1:B:451:PRO:C	2.59	0.46
1:B:418:ILE:HA	1:B:430:ASN:O	2.16	0.46
1:A:279:VAL:O	1:A:279:VAL:HG13	2.16	0.46
1:B:364:PHE:CD1	1:B:371:PHE:HB3	2.51	0.46
1:A:662:TYR:HB3	1:A:667:THR:OG1	2.16	0.46
1:B:217:SER:O	1:B:219:ASN:N	2.49	0.46
1:B:477:LEU:HD22	1:B:500:LEU:HD12	1.98	0.46
1:B:660:GLU:HG3	1:B:683:TYR:CD2	2.51	0.46
1:B:149:PRO:HG2	1:B:168:TRP:CD1	2.52	0.45
1:A:251:THR:HB	1:A:253:ARG:NH2	2.31	0.45
1:B:175:LYS:HG3	1:B:182:SER:HB3	1.98	0.45
1:A:728:VAL:O	1:B:750:HIS:CE1	2.69	0.45
1:B:174:VAL:HG23	1:B:185:ILE:HD11	1.98	0.45
1:A:660:GLU:HG3	1:A:683:TYR:CD2	2.51	0.45
1:B:74:ASN:HB2	1:B:92:ASN:CB	2.37	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:236:ILE:HG12	1:A:712:HIS:CD2	2.51	0.45
1:A:515:ASP:HB3	1:A:526:TYR:CZ	2.51	0.45
1:A:369:ASN:HA	1:A:389:ILE:CD1	2.47	0.45
1:B:112:GLN:HG2	1:B:138:ASN:OD1	2.17	0.45
1:B:216:TRP:CZ3	1:B:273:THR:HG21	2.44	0.45
1:B:114:ILE:CG2	1:B:135:TYR:HB3	2.40	0.45
1:B:487:ASN:O	1:B:488:ASP:HB2	2.16	0.45
1:A:487:ASN:O	1:A:488:ASP:HB2	2.17	0.45
1:A:463:LYS:C	1:A:465:ALA:N	2.75	0.45
1:A:417:TYR:HE2	1:A:419:SER:HB3	1.80	0.44
1:A:453:ARG:HH21	1:A:479:LEU:HB2	1.82	0.44
1:B:418:ILE:HD11	1:B:459:VAL:HG12	2.00	0.44
1:B:631:TYR:O	1:B:634:TYR:HB3	2.16	0.44
1:A:225:TYR:CZ	1:A:269:PHE:HB2	2.52	0.44
1:A:358:ARG:NH2	2:A:801:D5C:CBA	2.79	0.44
1:A:728:VAL:O	1:B:750:HIS:HE1	2.01	0.44
1:B:143:ILE:HD13	1:B:178:PRO:O	2.16	0.44
1:B:306:ALA:HB3	1:B:310:ARG:HG2	1.99	0.44
1:B:340:LEU:CB	1:B:343:ARG:HG2	2.47	0.44
1:A:542:LEU:HD23	1:A:542:LEU:C	2.41	0.44
1:B:626:ILE:O	1:B:650:GLY:HA2	2.16	0.44
1:A:113:PHE:CE1	1:A:178:PRO:HG2	2.52	0.44
1:A:203:TYR:OH	1:A:299:TYR:HB3	2.18	0.44
1:B:199:THR:HG22	1:B:203:TYR:HB3	1.99	0.44
1:B:323:SER:OG	1:B:347:GLU:HB3	2.18	0.44
1:A:438:ASP:OD2	1:A:441:LYS:HG3	2.18	0.44
1:A:477:LEU:HD22	1:A:500:LEU:HD12	2.00	0.44
1:A:750:HIS:CE1	1:B:728:VAL:O	2.71	0.44
1:B:80:ASN:H	1:B:86:SER:HB3	1.83	0.44
1:B:155:VAL:HG23	1:B:166:TYR:CB	2.46	0.44
1:B:219:ASN:HB2	1:B:308:GLN:OE1	2.18	0.44
1:A:235:LEU:HD13	1:A:253:ARG:HB3	2.00	0.43
1:A:741:GLY:O	1:A:742:ILE:C	2.59	0.43
1:B:307:THR:OG1	1:B:310:ARG:HB3	2.18	0.43
1:B:76:ILE:HD12	1:B:90:LEU:HD22	1.99	0.43
1:B:417:TYR:HE2	1:B:419:SER:HB3	1.82	0.43
1:A:115:LEU:HD21	1:A:155:VAL:HG11	2.00	0.43
1:B:584:GLY:O	1:B:585:TYR:HB2	2.19	0.43
1:A:159:PRO:HD3	1:A:216:TRP:CB	2.48	0.43
1:A:760:LYS:HG2	1:A:765:LEU:HB2	2.00	0.43
1:B:515:ASP:HB3	1:B:526:TYR:CZ	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:703:ILE:HA	1:B:733:MET:O	2.18	0.43
1:B:290:PRO:HD3	1:B:326:ASP:OD2	2.19	0.43
1:B:602:GLU:HG2	1:B:603:VAL:N	2.33	0.43
1:B:703:ILE:HG12	1:B:733:MET:HB3	2.00	0.43
1:A:49:LEU:HD23	1:A:49:LEU:HA	1.78	0.43
1:A:377:ASN:OD1	1:A:379:GLU:N	2.51	0.43
1:B:148:ILE:HG22	1:B:149:PRO:HD2	2.00	0.43
1:B:594:ILE:HD12	1:B:594:ILE:HA	1.92	0.43
1:A:310:ARG:NH1	1:A:368:GLY:O	2.49	0.43
1:A:508:GLN:OE1	1:A:533:HIS:NE2	2.52	0.43
1:A:636:THR:HG21	1:A:651:ILE:O	2.19	0.43
1:B:237:GLU:HG2	1:B:253:ARG:CG	2.47	0.43
1:A:217:SER:O	1:A:219:ASN:N	2.52	0.42
1:B:402:TRP:CD1	1:B:421:GLU:HG3	2.54	0.42
1:B:195:TYR:HB2	1:B:228:PHE:HB2	2.00	0.42
1:B:258:LYS:HA	1:B:662:TYR:O	2.20	0.42
1:A:369:ASN:HA	1:A:389:ILE:HD12	2.01	0.42
1:A:733:MET:HE3	1:A:754:HIS:CE1	2.55	0.42
1:A:602:GLU:HG2	1:A:603:VAL:N	2.34	0.42
1:A:718:GLN:OE1	1:A:721:LYS:HE2	2.18	0.42
1:B:98:PHE:CE2	1:B:100:HIS:HB2	2.54	0.42
1:B:382:ARG:HG2	1:B:382:ARG:HH11	1.84	0.42
1:A:109:PRO:HD2	1:A:161:GLY:O	2.19	0.42
1:A:703:ILE:HG12	1:A:733:MET:HB3	2.00	0.42
1:B:649:CYS:HB3	1:B:699:GLU:HB2	2.02	0.42
1:A:80:ASN:H	1:A:86:SER:HB3	1.84	0.42
1:A:306:ALA:HB3	1:A:310:ARG:HG2	2.01	0.42
1:B:223:LEU:HD12	1:B:223:LEU:HA	1.79	0.42
1:B:618:PHE:CD2	1:B:618:PHE:N	2.87	0.42
1:A:224:ALA:HB1	1:A:268:PHE:CZ	2.54	0.41
1:A:611:ARG:HG2	1:A:611:ARG:HH11	1.85	0.41
1:B:224:ALA:HB1	1:B:268:PHE:CZ	2.55	0.41
1:A:638:MET:O	1:A:691:ARG:NH1	2.53	0.41
1:B:127:SER:HB2	1:B:211:TYR:CG	2.56	0.41
1:A:584:GLY:O	1:A:585:TYR:HB2	2.20	0.41
1:A:718:GLN:OE1	1:A:718:GLN:HA	2.21	0.41
1:B:626:ILE:HD13	1:B:639:VAL:HG11	2.02	0.41
1:B:644:SER:C	1:B:646:VAL:H	2.28	0.41
1:A:72:GLN:O	1:A:73:GLU:C	2.63	0.41
1:A:223:LEU:HD12	1:A:223:LEU:HA	1.77	0.41
1:B:115:LEU:HD21	1:B:155:VAL:CG1	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:477:LEU:CD1	1:B:501:ASP:HB2	2.50	0.41
1:A:454:CYS:HB3	1:A:457:TYR:CZ	2.56	0.41
1:B:256:TYR:CE1	1:B:712:HIS:HE1	2.37	0.41
1:B:463:LYS:C	1:B:465:ALA:N	2.73	0.41
1:B:735:TYR:CE2	1:B:751:ILE:HG13	2.56	0.41
1:A:127:SER:HB2	1:A:211:TYR:CD2	2.56	0.41
1:A:746:THR:HG21	1:B:725:ASP:HA	2.02	0.41
1:B:49:LEU:HA	1:B:49:LEU:HD23	1.82	0.41
1:B:79:PHE:HA	1:B:86:SER:HB3	2.02	0.41
1:B:735:TYR:HE2	1:B:751:ILE:HG13	1.85	0.41
1:A:79:PHE:HA	1:A:86:SER:HB3	2.03	0.41
1:A:364:PHE:CD1	1:A:371:PHE:HB3	2.56	0.41
1:B:68:TYR:CE1	1:B:79:PHE:HB2	2.55	0.41
1:B:302:ASP:HA	1:B:358:ARG:NH1	2.35	0.41
1:A:195:TYR:HB2	1:A:228:PHE:HB2	2.02	0.41
1:A:402:TRP:CD1	1:A:421:GLU:HG3	2.55	0.41
1:A:417:TYR:CE2	1:A:419:SER:HB3	2.56	0.41
1:A:675:THR:C	1:A:680:LEU:HB2	2.46	0.41
1:B:302:ASP:HA	1:B:358:ARG:HH11	1.85	0.41
1:A:594:ILE:HD12	1:A:594:ILE:HA	1.92	0.41
1:B:420:ASN:HB2	1:B:426:PRO:HA	2.02	0.41
1:A:174:VAL:CG2	1:A:185:ILE:HD11	2.48	0.40
1:A:461:PHE:CD1	1:A:468:TYR:HB3	2.56	0.40
1:B:382:ARG:HH11	1:B:382:ARG:CG	2.34	0.40
1:A:530:LEU:HA	1:A:531:PRO:HD3	1.97	0.40
1:B:384:ILE:HD12	1:B:398:THR:HG21	2.04	0.40
1:A:74:ASN:HB2	1:A:92:ASN:CB	2.39	0.40
1:B:72:GLN:O	1:B:75:ASN:HB2	2.21	0.40
1:B:370:SER:HB2	1:B:386:TYR:CE1	2.57	0.40
1:B:433:LYS:HD2	1:B:445:LEU:HD21	2.03	0.40
1:B:578:PHE:CD2	1:B:609:ALA:HB2	2.56	0.40
1:A:307:THR:CG2	1:A:368:GLY:HA3	2.51	0.40
1:A:578:PHE:HE2	1:A:605:ASP:HB3	1.86	0.40
1:B:113:PHE:CE1	1:B:178:PRO:HG2	2.56	0.40
1:B:358:ARG:NH2	2:B:801:D5C:CBA	2.84	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	726/728 (100%)	642 (88%)	75 (10%)	9 (1%)	10	40
1	B	726/728 (100%)	650 (90%)	68 (9%)	8 (1%)	11	43
All	All	1452/1456 (100%)	1292 (89%)	143 (10%)	17 (1%)	10	40

All (17) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	140	ARG
1	B	140	ARG
1	A	178	PRO
1	A	279	VAL
1	A	645	GLY
1	B	178	PRO
1	B	279	VAL
1	B	645	GLY
1	B	341	VAL
1	B	389	ILE
1	A	244	GLU
1	B	423	LYS
1	B	464	GLU
1	A	464	GLU
1	A	389	ILE
1	A	111	GLY
1	A	341	VAL

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	653/653 (100%)	611 (94%)	42 (6%)	16	48
1	B	653/653 (100%)	610 (93%)	43 (7%)	15	46
All	All	1306/1306 (100%)	1221 (94%)	85 (6%)	15	47

All (85) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	40	ARG
1	A	41	LYS
1	A	46	THR
1	A	72	GLN
1	A	90	LEU
1	A	122	LYS
1	A	134	ILE
1	A	142	LEU
1	A	147	ARG
1	A	148	ILE
1	A	151	ASN
1	A	155	VAL
1	A	182	SER
1	A	193	ILE
1	A	230	ASP
1	A	231	THR
1	A	242	SER
1	A	250	LYS
1	A	271	VAL
1	A	277	SER
1	A	280	THR
1	A	288	THR
1	A	350	THR
1	A	361	GLU
1	A	378	GLU
1	A	382	ARG
1	A	385	CYS
1	A	419	SER
1	A	433	LYS
1	A	443	THR
1	A	449	LEU
1	A	458	SER
1	A	480	TYR
1	A	487	ASN

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Mol	Chain	Res	Type
1	A	493	VAL
1	A	500	LEU
1	A	504	LEU
1	A	522	THR
1	A	618	PHE
1	A	627	TRP
1	A	751	ILE
1	A	764	SER
1	B	40	ARG
1	B	41	LYS
1	B	46	THR
1	B	72	GLN
1	B	90	LEU
1	B	94	THR
1	B	122	LYS
1	B	134	ILE
1	B	142	LEU
1	B	148	ILE
1	B	155	VAL
1	B	182	SER
1	B	230	ASP
1	B	231	THR
1	B	245	SER
1	B	271	VAL
1	B	277	SER
1	B	280	THR
1	B	288	THR
1	B	350	THR
1	B	358	ARG
1	B	361	GLU
1	B	378	GLU
1	B	382	ARG
1	B	385	CYS
1	B	419	SER
1	B	433	LYS
1	B	443	THR
1	B	449	LEU
1	B	458	SER
1	B	480	TYR
1	B	487	ASN
1	B	493	VAL
1	B	500	LEU

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Mol	Chain	Res	Type
1	B	522	THR
1	B	529	ILE
1	B	545	ASP
1	B	594	ILE
1	B	618	PHE
1	B	627	TRP
1	B	680	LEU
1	B	751	ILE
1	B	764	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (26) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	51	ASN
1	A	74	ASN
1	A	123	GLN
1	A	141	GLN
1	A	150	ASN
1	A	169	ASN
1	A	281	ASN
1	A	314	GLN
1	A	338	ASN
1	A	506	ASN
1	A	685	ASN
1	A	697	GLN
1	B	51	ASN
1	B	74	ASN
1	B	92	ASN
1	B	123	GLN
1	B	141	GLN
1	B	150	ASN
1	B	169	ASN
1	B	338	ASN
1	B	435	GLN
1	B	506	ASN
1	B	685	ASN
1	B	697	GLN
1	B	748	HIS
1	B	757	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](#)

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	$\# Z > 2$
2	D5C	B	801	-	35,35,35	2.09	10 (28%)	47,50,50	1.02	2 (4%)
2	D5C	A	801	-	35,35,35	2.12	9 (25%)	47,50,50	1.29	6 (12%)

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
2	D5C	B	801	-	-	6/24/24/24	0/3/3/3
2	D5C	A	801	-	-	6/24/24/24	0/3/3/3

All (19) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	801	D5C	CAJ-CAD	-6.44	1.41	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	801	D5C	CAJ-CAD	-6.27	1.41	1.51
2	A	801	D5C	FAG-CAE	-4.99	1.22	1.35
2	B	801	D5C	CBD-CBB	-4.18	1.41	1.49
2	A	801	D5C	CAR-CAP	-3.96	1.41	1.50
2	B	801	D5C	CAU-CAX	-3.92	1.39	1.49
2	B	801	D5C	CAR-CAP	-3.66	1.42	1.50
2	B	801	D5C	FAG-CAE	-3.49	1.26	1.35
2	A	801	D5C	CAU-CAX	-3.45	1.40	1.49
2	A	801	D5C	CBD-CBB	-3.31	1.43	1.49
2	B	801	D5C	FAH-CAA	-3.24	1.26	1.35
2	B	801	D5C	FAI-CAB	-3.12	1.27	1.35
2	B	801	D5C	CAW-CAR	2.87	1.43	1.39
2	B	801	D5C	CAS-CAR	2.83	1.43	1.39
2	A	801	D5C	CAL-CAK	2.59	1.56	1.53
2	A	801	D5C	CAW-CAR	2.44	1.43	1.39
2	A	801	D5C	CAV-CAU	2.12	1.43	1.39
2	B	801	D5C	CAV-CAU	2.04	1.43	1.39
2	A	801	D5C	FBE-CBD	2.03	1.40	1.33

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	801	D5C	CAT-CAU-CAX	-3.11	115.88	121.25
2	B	801	D5C	CAS-CAT-CAU	-2.33	118.12	121.12
2	A	801	D5C	CAS-CAR-CAP	-2.33	113.06	120.60
2	A	801	D5C	CAW-CAR-CAP	2.32	128.14	120.60
2	B	801	D5C	CAV-CAW-CAR	-2.29	118.35	120.80
2	A	801	D5C	CAT-CAS-CAR	2.05	122.99	120.80
2	A	801	D5C	CAA-CAF-CAE	2.02	120.62	117.22
2	A	801	D5C	CAV-CAW-CAR	-2.02	118.64	120.80

There are no chirality outliers.

All (12) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	801	D5C	CAL-CAN-NAO-CAP
2	B	801	D5C	CAV-CAU-CAX-CBC
2	B	801	D5C	CAT-CAU-CAX-CBC
2	B	801	D5C	CAV-CAU-CAX-CAY
2	B	801	D5C	CAT-CAU-CAX-CAY
2	A	801	D5C	CAV-CAU-CAX-CBC
2	A	801	D5C	CAT-CAU-CAX-CAY

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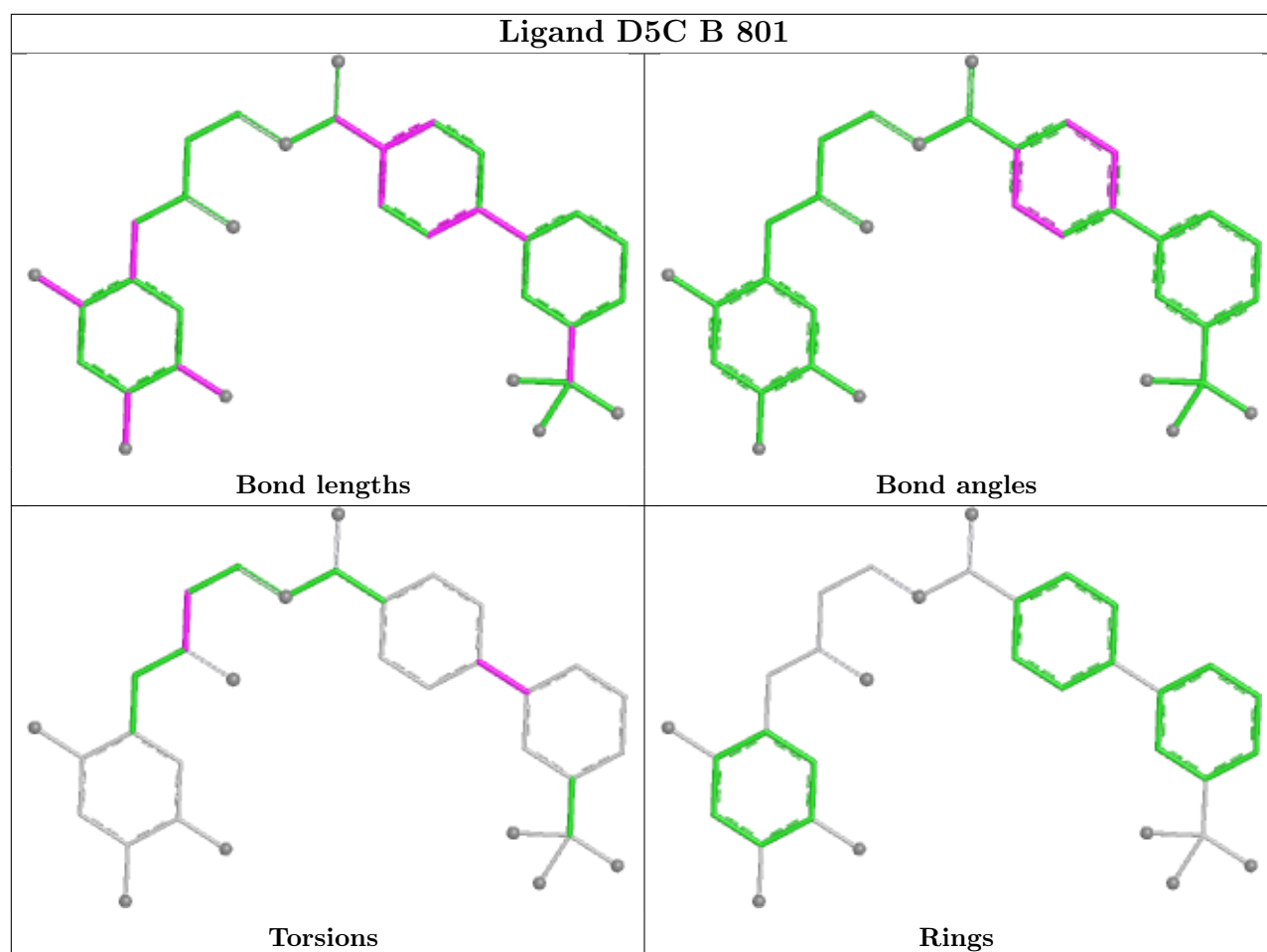
Mol	Chain	Res	Type	Atoms
2	A	801	D5C	CAT-CAU-CAX-CBC
2	A	801	D5C	CAV-CAU-CAX-CAY
2	B	801	D5C	NAM-CAK-CAL-CAN
2	A	801	D5C	CAJ-CAK-CAL-CAN
2	B	801	D5C	CAJ-CAK-CAL-CAN

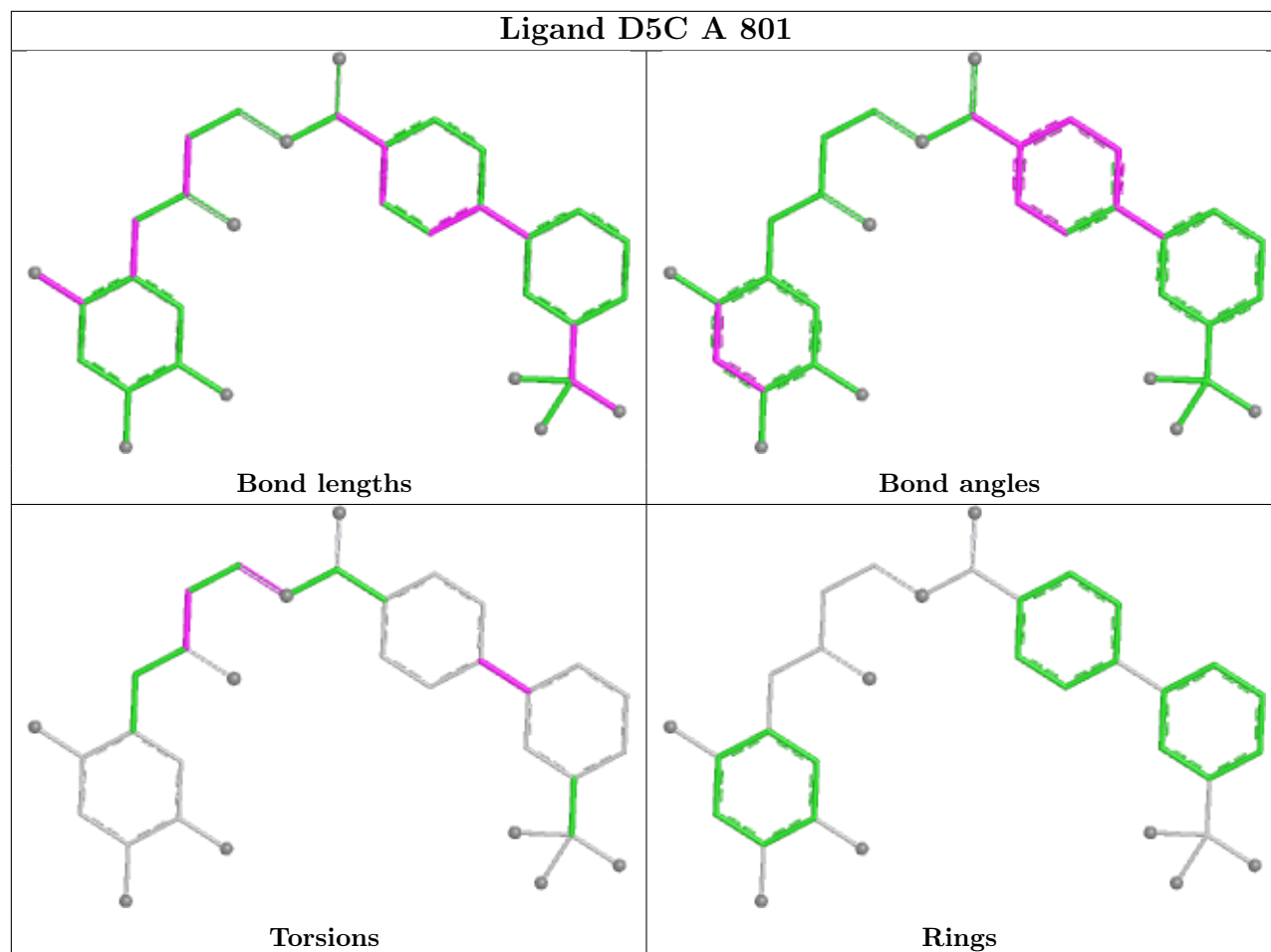
There are no ring outliers.

2 monomers are involved in 6 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	801	D5C	2	0
2	A	801	D5C	4	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 [i](#)

6.1 Protein, DNA and RNA chains [i](#)

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	728/728 (100%)	-0.61	1 (0%) 92 86	60, 102, 151, 200	0
1	B	728/728 (100%)	-0.63	1 (0%) 92 86	57, 106, 156, 228	0
All	All	1456/1456 (100%)	-0.62	2 (0%) 92 86	57, 104, 155, 228	0

All (2) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	766	PRO	2.4
1	A	766	PRO	2.2

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

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

6.3 Carbohydrates [i](#)

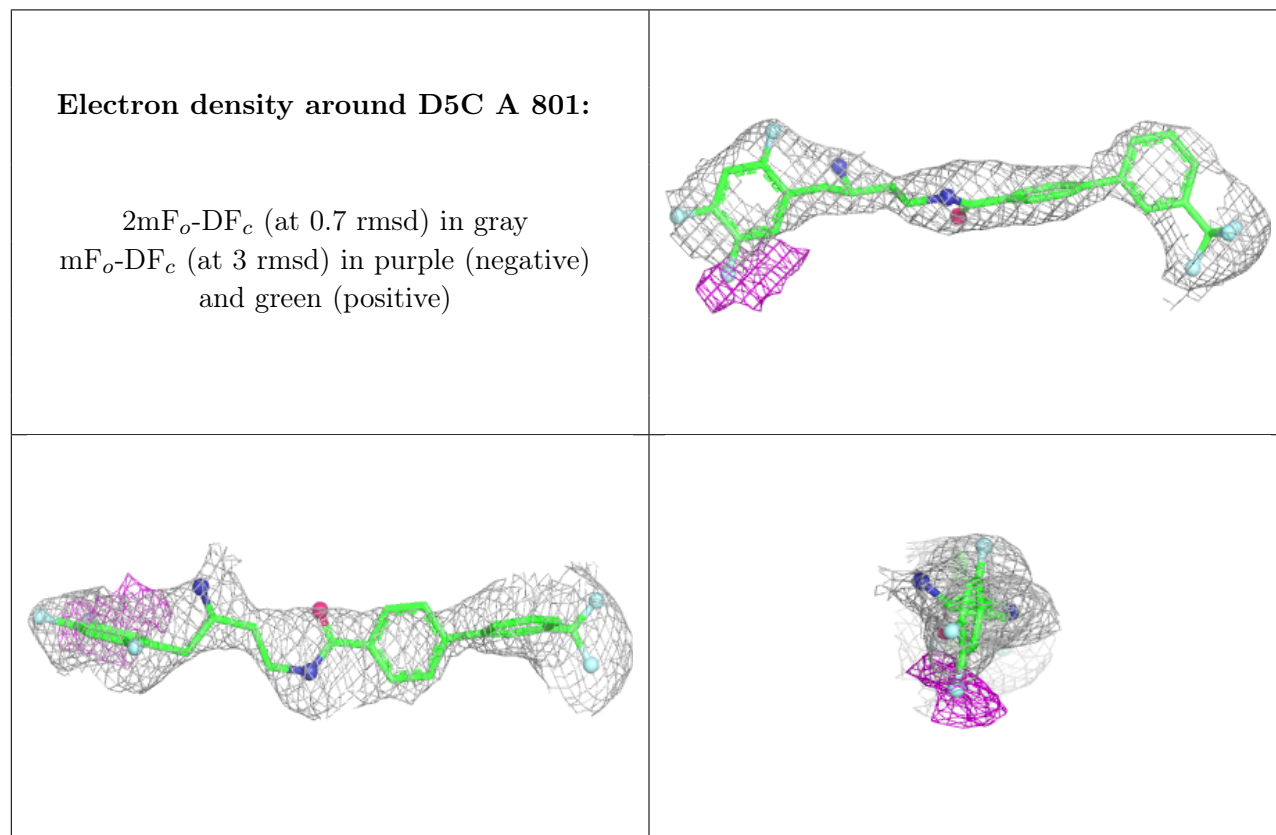
There are no oligosaccharides in this entry.

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.

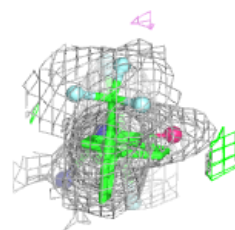
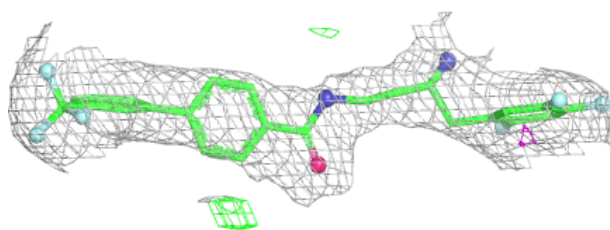
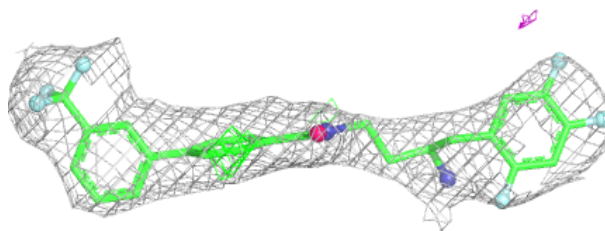
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
2	D5C	A	801	33/33	0.89	0.11	74,105,139,143	0
2	D5C	B	801	33/33	0.91	0.10	80,110,147,151	0

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 D5C B 801:

$2mF_o-DF_c$ (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.