



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 08:26 AM UTC

PDB ID : 5WHC / pdb_00005whc
Title : USP7 in complex with Cpd2 (4-(3-(1-methylpiperidin-4-yl)-1,2,4-oxadiazol-5-yl)phenol)
Authors : Murray, J.M.; Rouge, L.
Deposited on : 2017-07-16
Resolution : 2.55 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
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

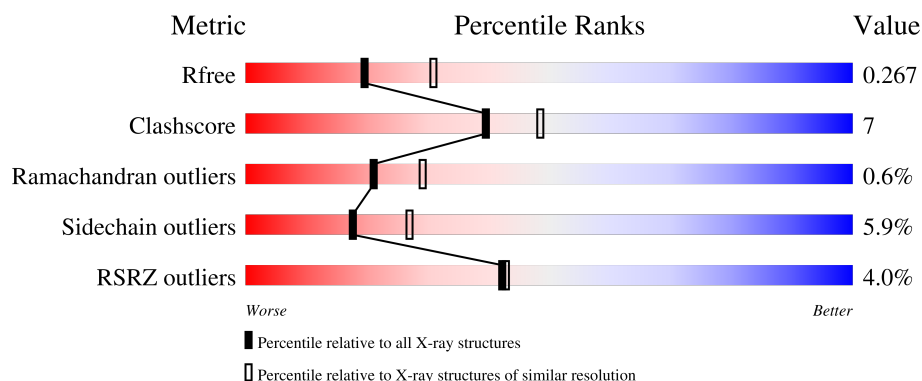
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.55 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	1091 (2.54-2.54)
Clashscore	190562	1120 (2.54-2.54)
Ramachandran outliers	187476	1106 (2.54-2.54)
Sidechain outliers	187428	1106 (2.54-2.54)
RSRZ outliers	180081	1091 (2.54-2.54)

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	346	3% 82% 15% ..
1	B	346	4% 76% 18% ..

2 Entry composition [i](#)

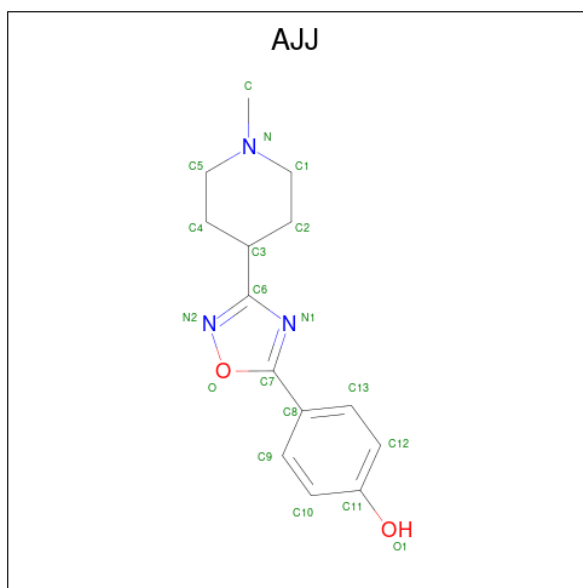
There are 4 unique types of molecules in this entry. The entry contains 5556 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Ubiquitin carboxyl-terminal hydrolase 7.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	338	Total	C	N	O	S	0	1	0
			2727	1727	466	518	16			
1	B	338	Total	C	N	O	S	10	1	0
			2724	1726	465	517	16			

- Molecule 2 is 4-[3-(1-methylpiperidin-4-yl)-1,2,4-oxadiazol-5-yl]phenol (CCD ID: AJJ) (formula: C₁₄H₁₇N₃O₂).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	N	O	0	0
			19	14	3	2		
2	B	1	Total	C	N	O	0	0
			19	14	3	2		

- Molecule 3 is GLYCEROL (CCD ID: GOL) (formula: C₃H₈O₃).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	O	0	0
			6	3	3		
3	B	1	Total	C	O	0	0
			6	3	3		

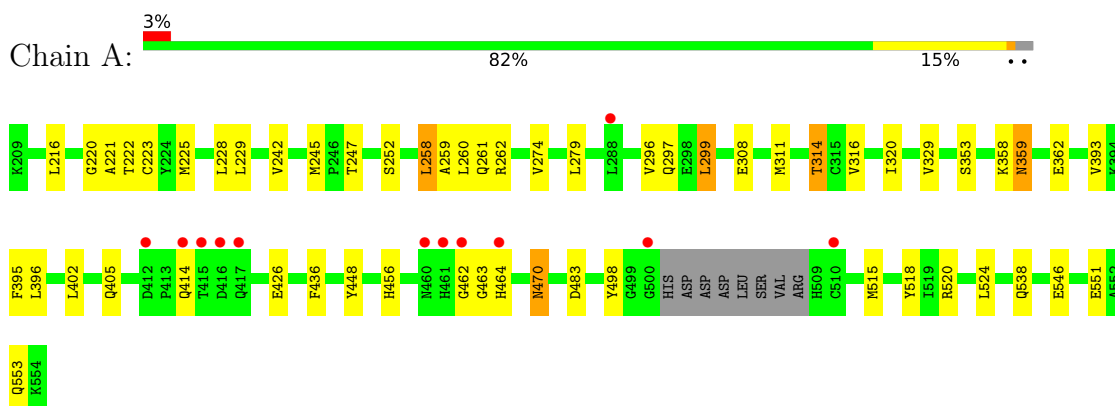
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	32	Total	O	0	0
			32	32		
4	B	23	Total	O	0	0
			23	23		

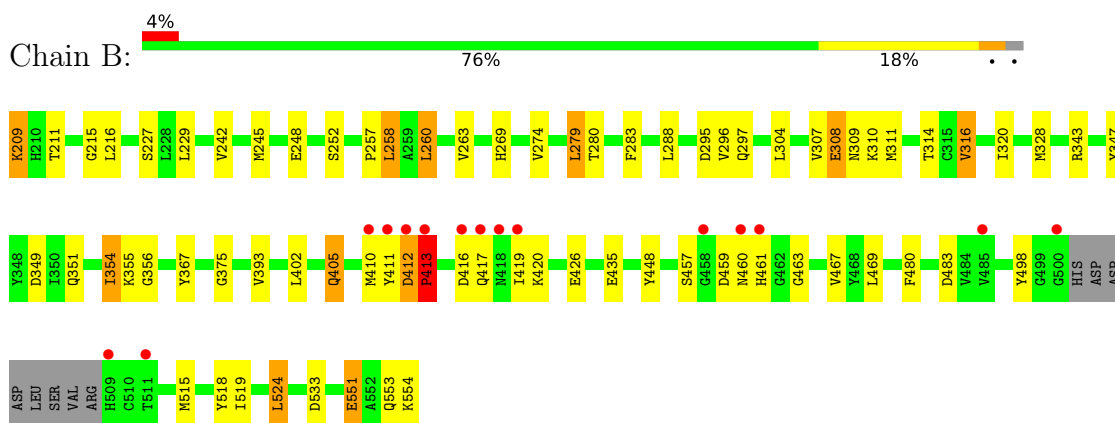
3 Residue-property plots

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: Ubiquitin carboxyl-terminal hydrolase 7



- Molecule 1: Ubiquitin carboxyl-terminal hydrolase 7



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	76.29Å 69.28Å 77.07Å 90.00° 95.00° 90.00°	Depositor
Resolution (Å)	76.78 – 2.55 76.78 – 2.55	Depositor EDS
% Data completeness (in resolution range)	97.0 (76.78-2.55) 97.0 (76.78-2.55)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.01 (at 2.55Å)	Xtriage
Refinement program	PHENIX (dev_2747)	Depositor
R, R_{free}	0.209 , 0.260 0.217 , 0.267	Depositor DCC
R_{free} test set	1310 reflections (4.96%)	wwPDB-VP
Wilson B-factor (Å ²)	63.6	Xtriage
Anisotropy	0.314	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 46.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.51$, $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	0.014 for l,-k,h	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	5556	wwPDB-VP
Average B, all atoms (Å ²)	74.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 33.58 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 7.8215e-04. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

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: GOL, AJJ

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	0.30	2/2787 (0.1%)	0.37	0/3759
1	B	0.32	2/2784 (0.1%)	0.64	8/3755 (0.2%)
All	All	0.31	4/5571 (0.1%)	0.52	8/7514 (0.1%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1
1	B	0	1
All	All	0	2

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	308	GLU	CA-C	-7.70	1.42	1.52
1	A	223	CYS	C-O	-6.02	1.19	1.24
1	B	308	GLU	C-O	-5.91	1.17	1.24
1	A	223	CYS	CA-C	-5.40	1.47	1.52

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	412	ASP	CA-C-N	13.26	136.41	119.84
1	B	412	ASP	C-N-CA	13.26	136.41	119.84
1	B	309[A]	ASN	CA-C-O	10.78	131.98	120.55
1	B	309[B]	ASN	CA-C-O	10.78	131.98	120.55
1	B	309[A]	ASN	N-CA-C	9.27	121.39	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	309[B]	ASN	N-CA-C	9.27	121.39	111.28
1	B	411	TYR	N-CA-C	8.95	122.53	110.35
1	B	417	GLN	N-CA-C	7.75	120.84	109.07

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	414	GLN	Peptide
1	B	413	PRO	Peptide

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	2727	0	2661	30	0
1	B	2724	0	2657	46	0
2	A	19	0	0	0	0
2	B	19	0	0	0	0
3	A	6	0	8	1	0
3	B	6	0	8	2	0
4	A	32	0	0	1	0
4	B	23	0	0	2	0
All	All	5556	0	5334	72	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 7.

All (72) 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:419:ILE:HG22	1:B:420:LYS:N	1.94	0.82
1:B:296:VAL:H	3:B:602:GOL:H32	1.52	0.72
1:B:459:ASP:OD2	1:B:461:HIS:ND1	2.16	0.70
1:B:551:GLU:HA	1:B:554:LYS:HD3	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:314:THR:HG23	1:A:316:VAL:H	1.58	0.69
1:B:314:THR:HG23	1:B:316:VAL:H	1.56	0.69
1:B:419:ILE:CG2	1:B:420:LYS:N	2.56	0.67
1:A:405:GLN:NE2	1:A:515:MET:SD	2.71	0.64
1:B:216:LEU:HD23	1:B:274:VAL:HB	1.79	0.64
1:A:296:VAL:H	3:A:602:GOL:H32	1.65	0.61
1:B:410:MET:O	1:B:419:ILE:HB	2.02	0.60
1:A:462:GLY:HA2	1:B:461:HIS:CD2	2.37	0.59
1:A:359:ASN:ND2	1:A:362:GLU:H	2.01	0.58
1:B:311:MET:O	1:B:314:THR:HG22	2.04	0.57
1:A:464:HIS:CE1	1:B:460:ASN:HB2	2.40	0.57
1:B:269:HIS:NE2	1:B:533:ASP:OD1	2.35	0.57
1:B:419:ILE:CG2	1:B:420:LYS:H	2.18	0.56
1:B:448:TYR:HB3	1:B:518:TYR:HB3	1.88	0.56
1:A:464:HIS:ND1	1:B:460:ASN:HB2	2.21	0.55
1:B:419:ILE:HG22	1:B:420:LYS:H	1.70	0.55
1:A:308:GLU:HB2	1:A:320:ILE:HG13	1.88	0.54
1:A:520:ARG:NH2	4:A:702:HOH:O	2.41	0.54
1:A:216:LEU:HD23	1:A:274:VAL:HB	1.90	0.52
1:B:295:ASP:HB2	3:B:602:GOL:O3	2.08	0.52
1:B:459:ASP:HB3	1:B:463:GLY:HA2	1.93	0.51
1:B:343:ARG:NH1	1:B:343:ARG:HB3	2.25	0.51
1:B:367:TYR:OH	4:B:702:HOH:O	2.19	0.50
1:A:470:ASN:H	1:A:470:ASN:HD22	1.57	0.49
1:A:311:MET:O	1:A:314:THR:HG22	2.13	0.49
1:B:460:ASN:O	1:B:460:ASN:ND2	2.45	0.49
1:A:448:TYR:HB3	1:A:518:TYR:HB3	1.96	0.48
1:B:297:GLN:OE1	1:B:351:GLN:NE2	2.43	0.48
1:B:297:GLN:NE2	1:B:349:ASP:OD2	2.44	0.48
1:B:328:MET:HG3	1:B:347:TYR:CD1	2.49	0.48
1:B:304:LEU:HA	1:B:307:VAL:HG22	1.94	0.48
1:A:483:ASP:OD2	1:A:483:ASP:N	2.45	0.48
1:A:225:MET:HG3	1:A:299:LEU:HD11	1.94	0.47
1:A:247:THR:HG21	1:A:261:GLN:OE1	2.14	0.47
1:B:227:SER:HB3	1:B:467:VAL:HB	1.96	0.47
1:B:308:GLU:HB2	1:B:320:ILE:HG13	1.97	0.47
1:B:343:ARG:HB3	1:B:343:ARG:HH11	1.80	0.47
1:B:483:ASP:OD1	1:B:483:ASP:N	2.36	0.46
1:A:220:GLY:C	1:A:222:THR:H	2.23	0.46
1:B:252:SER:HA	1:B:258:LEU:HD12	1.99	0.45
1:A:358:LYS:HE3	1:A:359:ASN:OD1	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:456:HIS:NE2	1:A:463:GLY:HA3	2.32	0.45
1:A:359:ASN:C	1:A:359:ASN:HD22	2.25	0.44
1:B:354:ILE:HG13	1:B:355:LYS:N	2.32	0.44
1:B:260:LEU:HD23	1:B:260:LEU:HA	1.86	0.43
1:B:257:PRO:HG2	1:B:310:LYS:HD3	2.00	0.43
1:B:279:LEU:HD22	1:B:283:PHE:HE2	1.83	0.43
1:A:242:VAL:HG13	1:A:245:MET:HE2	1.99	0.43
1:A:426:GLU:HG2	1:A:498:TYR:CD2	2.54	0.43
1:B:405:GLN:NE2	1:B:515:MET:SD	2.83	0.43
1:A:252:SER:HA	1:A:258:LEU:HD12	2.00	0.42
1:A:395:PHE:HB2	1:A:436:PHE:O	2.18	0.42
1:B:242:VAL:HG13	1:B:245:MET:HE2	2.01	0.42
1:A:359:ASN:HD22	1:A:362:GLU:H	1.65	0.42
1:A:463:GLY:O	1:B:461:HIS:HB3	2.19	0.42
1:B:229:LEU:HD13	1:B:263:VAL:HG11	2.02	0.42
1:B:426:GLU:HG2	1:B:498:TYR:CD2	2.55	0.41
1:A:329:VAL:HG23	1:A:396:LEU:HD11	2.02	0.41
1:B:215:GLY:HA3	1:B:483:ASP:HA	2.02	0.41
1:B:519:ILE:HG21	1:B:524:LEU:HD23	2.02	0.41
1:B:209:LYS:C	1:B:211:THR:H	2.29	0.41
1:B:248:GLU:OE1	1:B:248:GLU:N	2.51	0.41
1:A:259:ALA:HA	1:A:262:ARG:NH1	2.36	0.41
1:B:412:ASP:HA	1:B:413:PRO:HD3	1.47	0.41
1:B:467:VAL:HG13	1:B:480:PHE:HB2	2.02	0.40
1:B:356:GLY:N	4:B:701:HOH:O	2.15	0.40
1:A:220:GLY:O	1:A:222:THR:N	2.49	0.40
1:A:470:ASN:H	1:A:470:ASN:ND2	2.20	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	335/346 (97%)	322 (96%)	12 (4%)	1 (0%)	36	45
1	B	335/346 (97%)	317 (95%)	15 (4%)	3 (1%)	14	20
All	All	670/692 (97%)	639 (95%)	27 (4%)	4 (1%)	21	29

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	416	ASP
1	B	413	PRO
1	B	375	GLY
1	A	221	ALA

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	300/313 (96%)	282 (94%)	18 (6%)	17	26
1	B	299/313 (96%)	282 (94%)	17 (6%)	18	28
All	All	599/626 (96%)	564 (94%)	35 (6%)	18	27

All (35) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	228	LEU
1	A	229	LEU
1	A	258	LEU
1	A	260	LEU
1	A	279	LEU
1	A	297	GLN
1	A	299	LEU
1	A	314	THR
1	A	353	SER
1	A	359	ASN
1	A	393	VAL
1	A	402	LEU

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Mol	Chain	Res	Type
1	A	470	ASN
1	A	524	LEU
1	A	538	GLN
1	A	546	GLU
1	A	551	GLU
1	A	553	GLN
1	B	209	LYS
1	B	258	LEU
1	B	260	LEU
1	B	279	LEU
1	B	280	THR
1	B	288	LEU
1	B	316	VAL
1	B	354	ILE
1	B	393	VAL
1	B	402	LEU
1	B	405	GLN
1	B	435	GLU
1	B	457	SER
1	B	469	LEU
1	B	524	LEU
1	B	551	GLU
1	B	553	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (7) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	359	ASN
1	A	372	GLN
1	A	387	GLN
1	A	405	GLN
1	A	418	ASN
1	B	210	HIS
1	B	387	GLN

5.3.3 RNA ⓘ

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](#)

4 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	AJJ	B	601	-	20,21,21	0.23	0	25,29,29	0.16	0
2	AJJ	A	601	-	20,21,21	0.23	0	25,29,29	0.18	0
3	GOL	B	602	-	5,5,5	0.78	0	5,5,5	0.98	0
3	GOL	A	602	-	5,5,5	0.73	0	5,5,5	0.92	0

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	AJJ	B	601	-	-	0/8/18/18	0/3/3/3
2	AJJ	A	601	-	-	0/8/18/18	0/3/3/3
3	GOL	B	602	-	-	0/4/4/4	-
3	GOL	A	602	-	-	0/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

2 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	B	602	GOL	2	0
3	A	602	GOL	1	0

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	338/346 (97%)	0.23	12 (3%)	46 47	45, 71, 110, 150	1 (0%)
1	B	336/346 (97%)	0.37	15 (4%)	38 38	30, 73, 108, 146	1 (0%)
All	All	674/692 (97%)	0.30	27 (4%)	42 43	30, 72, 109, 150	2 (0%)

All (27) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	417	GLN	7.4
1	B	412	ASP	6.9
1	B	416	ASP	6.3
1	B	413	PRO	5.7
1	B	418	ASN	4.8
1	A	414	GLN	3.4
1	A	415	THR	3.4
1	B	460	ASN	3.3
1	A	461	HIS	3.2
1	A	462	GLY	3.2
1	A	412	ASP	3.1
1	A	416	ASP	3.1
1	B	411	TYR	3.1
1	B	500	GLY	3.1
1	B	458	GLY	2.9
1	B	509	HIS	2.9
1	A	464	HIS	2.7
1	B	419	ILE	2.7
1	A	417	GLN	2.5
1	A	500	GLY	2.5
1	B	461	HIS	2.4
1	A	510	CYS	2.2
1	B	485	VAL	2.2
1	A	288	LEU	2.1

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Mol	Chain	Res	Type	RSRZ
1	B	511	THR	2.1
1	A	460	ASN	2.1
1	B	410	MET	2.0

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
3	GOL	B	602	6/6	0.78	0.17	89,92,95,98	0
2	AJJ	A	601	19/19	0.82	0.19	82,98,103,104	0
2	AJJ	B	601	19/19	0.83	0.16	74,90,94,96	0
3	GOL	A	602	6/6	0.91	0.12	73,73,75,80	0

6.5 Other polymers [i](#)

There are no such residues in this entry.