



Full wwPDB X-ray Structure Validation Report ⓘ

Jul 15, 2026 – 03:09 PM JST

PDB ID : 9WAQ / pdb_00009waq
Title : Crystal structure of the effector-immunity VP14460-VP14465 in *Vibrio parahaemolyticus*
Authors : Hu, F.
Deposited on : 2025-08-12
Resolution : 1.97 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	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.015 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.50

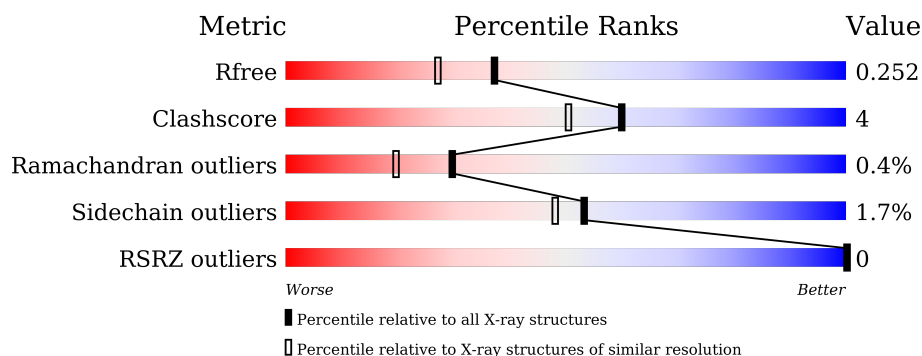
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.97 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	1506 (1.98-1.98)
Clashscore	190562	1534 (1.98-1.98)
Ramachandran outliers	187476	1518 (1.98-1.98)
Sidechain outliers	187428	1518 (1.98-1.98)
RSRZ outliers	180081	1506 (1.98-1.98)

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	322	90% 7% .
1	C	322	89% 8% ..
2	B	159	58% 6% .. 34%
2	D	159	50% 15% 34%

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 7454 atoms, of which 31 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 DUF1911 domain-containing protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	315	Total	C	N	O	S	0	0	0
			2579	1664	421	480	14			
1	C	316	Total	C	N	O	S	0	0	0
			2588	1669	423	482	14			

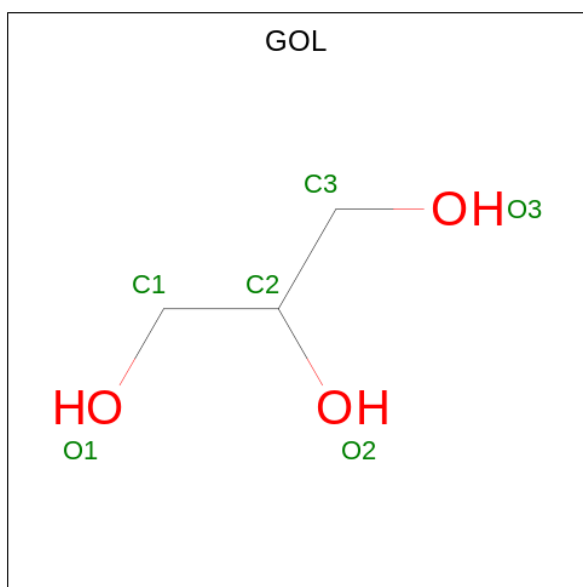
There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	5	GLU	-	expression tag	UNP A0A024B384
C	5	GLU	-	expression tag	UNP A0A024B384

- Molecule 2 is a protein called VP14465.

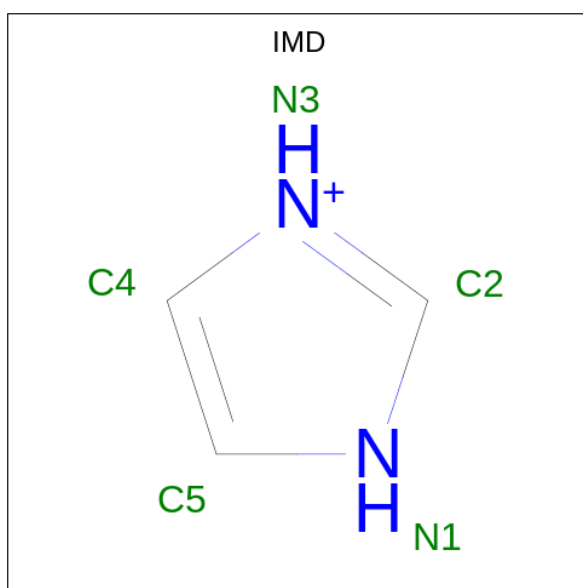
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	105	Total	C	N	O	S	0	0	0
			855	541	145	164	5			
2	D	105	Total	C	N	O	S	0	0	0
			859	542	148	164	5			

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



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	H	O	0	0
			14	3	8	3		
3	C	1	Total	C	H	O	0	0
			14	3	8	3		

- Molecule 4 is IMIDAZOLE (CCD ID: IMD) (formula: $C_3H_5N_2$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	A	1	Total	C	H	N	0	0
			10	3	5	2		
4	A	1	Total	C	H	N	0	0
			10	3	5	2		

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	C	1	Total	C	H	N	0	0
			10	3	5	2		

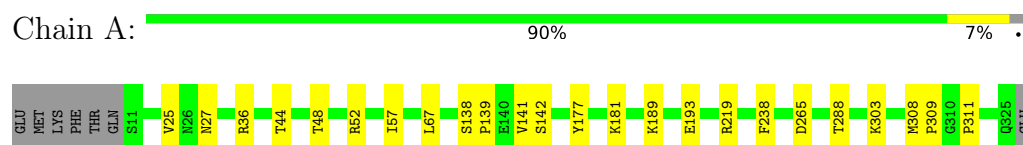
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	192	Total	O	0	0
			192	192		
5	B	57	Total	O	0	0
			57	57		
5	C	204	Total	O	0	0
			204	204		
5	D	62	Total	O	0	0
			62	62		

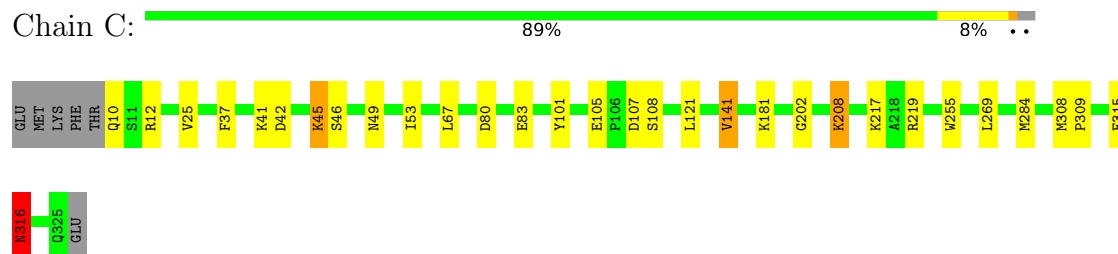
3 Residue-property plots [i](#)

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.

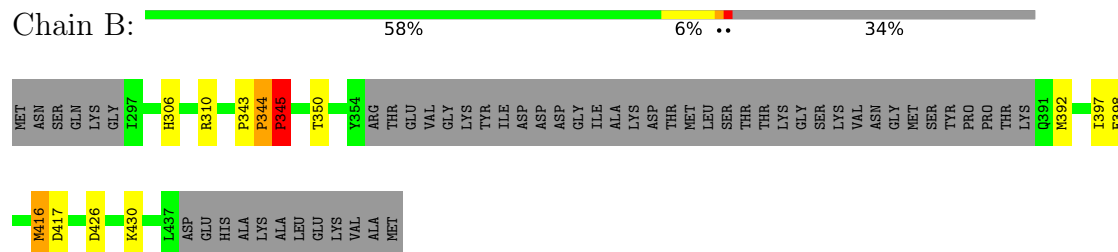
- Molecule 1: DUF1911 domain-containing protein



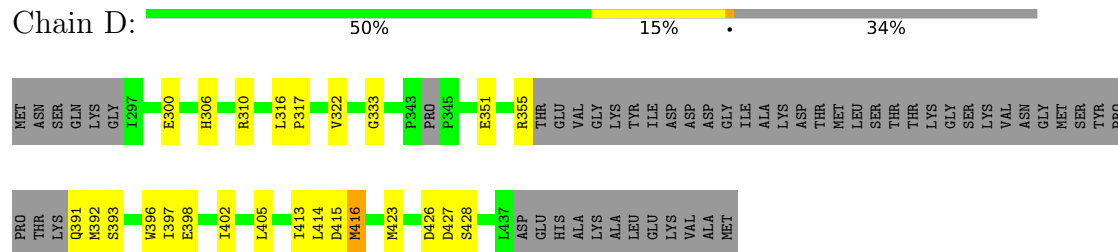
- Molecule 1: DUF1911 domain-containing protein



- Molecule 2: VP14465



- Molecule 2: VP14465



4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	53.84Å 58.48Å 80.13Å 89.90° 89.84° 62.92°	Depositor
Resolution (Å)	31.76 – 1.97 31.76 – 1.97	Depositor EDS
% Data completeness (in resolution range)	94.3 (31.76-1.97) 93.5 (31.76-1.97)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.59 (at 1.97Å)	Xtriage
Refinement program	PHENIX (1.20.1_4487: ???)	Depositor
R, R_{free}	0.209 , 0.256 0.214 , 0.252	Depositor DCC
R_{free} test set	2917 reflections (4.74%)	wwPDB-VP
Wilson B-factor (Å ²)	23.6	Xtriage
Anisotropy	0.251	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 37.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	0.047 for h,h-k,-l 0.368 for -h,-k,l 0.029 for -h,-h+k,-l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	7454	wwPDB-VP
Average B, all atoms (Å ²)	28.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.98% 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: IMD, GOL

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	0.75	0/2656	0.76	3/3602 (0.1%)
1	C	0.64	1/2665 (0.0%)	0.72	6/3614 (0.2%)
2	B	1.05	2/872 (0.2%)	1.14	6/1177 (0.5%)
2	D	0.80	0/874	0.83	0/1175
All	All	0.76	3/7067 (0.0%)	0.81	15/9568 (0.2%)

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	344	PRO	CA-C	5.32	1.57	1.52
2	B	345	PRO	CA-C	5.24	1.57	1.52
1	C	308	MET	C-O	-5.23	1.17	1.24

All (15) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	343	PRO	N-CA-C	18.47	133.23	110.70
1	A	311	PRO	N-CA-C	-8.29	98.97	111.57
1	C	141	VAL	N-CA-C	7.63	119.58	109.21
1	C	315	GLU	N-CA-C	-7.31	99.00	109.96
1	C	208	LYS	N-CA-C	6.73	120.36	111.75
1	C	316	ASN	N-CA-CB	5.68	120.10	110.49
2	B	343	PRO	CA-C-N	-5.64	114.57	120.38
2	B	343	PRO	C-N-CA	-5.64	114.57	120.38
1	A	139	PRO	N-CA-C	5.63	124.07	112.47
2	B	350	THR	N-CA-C	5.57	119.13	110.17
2	B	426	ASP	N-CA-C	5.48	116.99	110.19
1	A	138	SER	CB-CA-C	5.30	117.09	108.87
1	C	46	SER	N-CA-C	5.24	116.86	110.41
1	C	315	GLU	CA-C-O	-5.21	114.82	120.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	430	LYS	N-CA-C	5.17	118.50	110.17

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	2579	0	2494	15	0
1	C	2588	0	2502	22	0
2	B	855	0	842	6	0
2	D	859	0	848	24	0
3	A	6	8	8	1	0
3	C	6	8	8	0	0
4	A	10	10	10	0	0
4	C	5	5	5	0	0
5	A	192	0	0	3	0
5	B	57	0	0	1	0
5	C	204	0	0	4	0
5	D	62	0	0	0	0
All	All	7423	31	6717	59	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 4.

All (59) 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:C:10:GLN:HG2	1:C:12:ARG:HD3	1.71	0.71
1:C:45:LYS:HG2	1:C:49:ASN:HB3	1.73	0.69
2:D:355:ARG:CZ	2:D:426:ASP:HB2	2.22	0.69
1:C:10:GLN:HG3	1:C:12:ARG:H	1.57	0.69
2:D:405:LEU:HD13	2:D:413:ILE:HD13	1.78	0.66
2:D:393:SER:HB2	2:D:396:TRP:H	1.60	0.66
2:D:333:GLY:O	2:D:351:GLU:HG3	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:189:LYS:NZ	5:A:508:HOH:O	2.31	0.64
1:C:107:ASP:H	2:D:391:GLN:HE22	1.46	0.63
1:A:189:LYS:O	1:A:193:GLU:HG3	1.98	0.62
2:B:345:PRO:HG3	5:B:553:HOH:O	1.99	0.61
1:C:217:LYS:NZ	5:C:502:HOH:O	2.20	0.61
2:D:426:ASP:OD1	2:D:428:SER:OG	2.14	0.61
2:D:355:ARG:NH2	2:D:427:ASP:H	2.01	0.59
1:A:27:ASN:HB2	5:A:516:HOH:O	2.04	0.57
1:C:53:ILE:HD11	2:D:415:ASP:HA	1.86	0.57
2:D:355:ARG:NH1	2:D:426:ASP:HB2	2.21	0.55
1:A:52:ARG:HH22	2:B:417:ASP:HA	1.72	0.54
1:C:53:ILE:CD1	2:D:415:ASP:HA	2.39	0.53
1:C:105:GLU:OE1	2:D:393:SER:OG	2.27	0.53
1:C:10:GLN:CG	1:C:12:ARG:HH11	2.22	0.53
1:C:25:VAL:HG12	1:C:67:LEU:HD22	1.90	0.52
1:C:101:TYR:HB3	1:C:108:SER:HB3	1.91	0.52
2:D:300:GLU:HB2	2:D:322:VAL:HG12	1.92	0.52
1:A:25:VAL:HG12	1:A:67:LEU:HD22	1.91	0.52
1:C:80:ASP:OD2	5:C:501:HOH:O	2.20	0.50
1:A:288:THR:HG23	1:A:303:LYS:HA	1.95	0.49
1:C:121:LEU:HB3	1:C:255:TRP:NE1	2.27	0.49
2:B:306:HIS:O	2:B:310:ARG:HG2	2.12	0.49
1:C:219:ARG:HH12	2:D:316:LEU:HD22	1.78	0.48
2:D:397:ILE:HD12	2:D:398:GLU:N	2.29	0.48
2:D:398:GLU:HG3	2:D:414:LEU:HD22	1.96	0.47
1:C:83:GLU:OE1	5:C:503:HOH:O	2.20	0.46
2:D:416:MET:HB3	2:D:416:MET:HE2	1.64	0.46
1:A:189:LYS:HE2	1:A:238:PHE:O	2.16	0.46
1:C:316:ASN:HD22	1:C:316:ASN:HA	1.56	0.45
1:A:52:ARG:HG3	2:B:398:GLU:CD	2.41	0.45
1:A:219:ARG:NH1	5:A:527:HOH:O	2.49	0.45
1:C:202:GLY:HA2	5:C:652:HOH:O	2.17	0.45
2:D:391:GLN:HB3	2:D:392:MET:H	1.52	0.45
1:A:177:TYR:O	1:A:181:LYS:HG3	2.17	0.44
2:D:355:ARG:HH21	2:D:427:ASP:CG	2.25	0.44
1:C:219:ARG:NH2	2:D:317:PRO:HD3	2.32	0.44
2:D:355:ARG:HH21	2:D:427:ASP:CB	2.31	0.44
2:B:344:PRO:HB2	2:B:345:PRO:HD3	2.00	0.43
1:C:181:LYS:HB2	1:C:181:LYS:HE2	1.60	0.43
1:C:269:LEU:HD23	1:C:269:LEU:HA	1.79	0.43
2:D:306:HIS:O	2:D:310:ARG:HG2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:181:LYS:HB2	1:A:181:LYS:HE2	1.59	0.43
1:A:308:MET:HA	1:A:309:PRO:HD3	1.86	0.43
2:D:355:ARG:HH21	2:D:427:ASP:HB2	1.85	0.42
2:D:306:HIS:CD2	2:D:423:MET:HE2	2.54	0.42
2:D:392:MET:HE3	2:D:392:MET:HB2	1.87	0.42
2:B:416:MET:HE2	2:B:416:MET:HB2	1.65	0.42
1:A:265:ASP:OD1	1:A:265:ASP:N	2.53	0.41
1:C:284:MET:HE2	1:C:284:MET:HB3	1.89	0.41
1:C:37:PHE:O	1:C:41:LYS:HG2	2.20	0.41
1:A:141:VAL:HA	3:A:401:GOL:O1	2.20	0.41
1:A:36:ARG:HB2	1:A:57:ILE:HD11	2.03	0.41

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	313/322 (97%)	309 (99%)	4 (1%)	0	100	100
1	C	314/322 (98%)	309 (98%)	3 (1%)	2 (1%)	21	12
2	B	101/159 (64%)	97 (96%)	3 (3%)	1 (1%)	12	5
2	D	99/159 (62%)	97 (98%)	2 (2%)	0	100	100
All	All	827/962 (86%)	812 (98%)	12 (2%)	3 (0%)	30	20

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	C	316	ASN
2	B	345	PRO
1	C	309	PRO

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	282/289 (98%)	279 (99%)	3 (1%)	65	61
1	C	283/289 (98%)	278 (98%)	5 (2%)	51	46
2	B	95/140 (68%)	92 (97%)	3 (3%)	34	24
2	D	95/140 (68%)	93 (98%)	2 (2%)	47	40
All	All	755/858 (88%)	742 (98%)	13 (2%)	53	48

All (13) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	44	THR
1	A	48	THR
1	A	142	SER
2	B	392	MET
2	B	397	ILE
2	B	416	MET
1	C	42	ASP
1	C	45	LYS
1	C	141	VAL
1	C	208	LYS
1	C	316	ASN
2	D	402	ILE
2	D	416	MET

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (13) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	73	GLN
1	A	175	HIS
1	C	73	GLN
1	C	98	HIS
1	C	174	GLN
1	C	178	ASN

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Mol	Chain	Res	Type
1	C	262	GLN
1	C	313	GLN
1	C	316	ASN
1	C	325	GLN
2	D	321	GLN
2	D	339	GLN
2	D	433	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 ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

5 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	GOL	C	402	-	5,5,5	0.16	0	5,5,5	0.36	0
4	IMD	C	401	-	5,5,5	0.59	0	5,5,5	0.35	0
4	IMD	A	402	-	5,5,5	0.52	0	5,5,5	0.48	0
4	IMD	A	403	-	5,5,5	0.49	0	5,5,5	0.49	0
3	GOL	A	401	-	5,5,5	0.16	0	5,5,5	0.18	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
3	GOL	C	402	-	-	2/4/4/4	-
4	IMD	C	401	-	-	-	0/1/1/1
4	IMD	A	402	-	-	-	0/1/1/1
4	IMD	A	403	-	-	-	0/1/1/1
3	GOL	A	401	-	-	1/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (3) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	C	402	GOL	O1-C1-C2-C3
3	C	402	GOL	O1-C1-C2-O2
3	A	401	GOL	O1-C1-C2-C3

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	401	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 [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	315/322 (97%)	-1.53	0 100 100	15, 24, 46, 80	0
1	C	316/322 (98%)	-1.55	0 100 100	14, 25, 47, 71	0
2	B	105/159 (66%)	-1.52	0 100 100	16, 29, 52, 62	0
2	D	105/159 (66%)	-1.48	0 100 100	17, 28, 46, 53	0
All	All	841/962 (87%)	-1.53	0 100 100	14, 25, 47, 80	0

There are no RSRZ outliers to report.

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
4	IMD	A	403	5/5	0.97	0.05	20,20,20,20	0
3	GOL	C	402	6/6	0.99	0.03	20,20,20,20	0
4	IMD	A	402	5/5	0.99	0.03	20,20,20,20	0
3	GOL	A	401	6/6	0.99	0.02	20,20,20,20	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
4	IMD	C	401	5/5	0.99	0.02	20,20,20,20	0

6.5 Other polymers [i](#)

There are no such residues in this entry.