



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 09:57 PM UTC

PDB ID : 1L7O / pdb_0000117o
Title : CRYSTAL STRUCTURE OF PHOSPHOSERINE PHOSPHATASE IN APO FORM
Authors : Wang, W.; Cho, H.S.; Kim, R.; Jancarik, J.; Yokota, H.; Nguyen, H.H.; Grigoriev, I.V.; Wemmer, D.E.; Kim, S.H.; Berkeley Structural Genomics Center (BSGC)
Deposited on : 2002-03-16
Resolution : 2.20 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

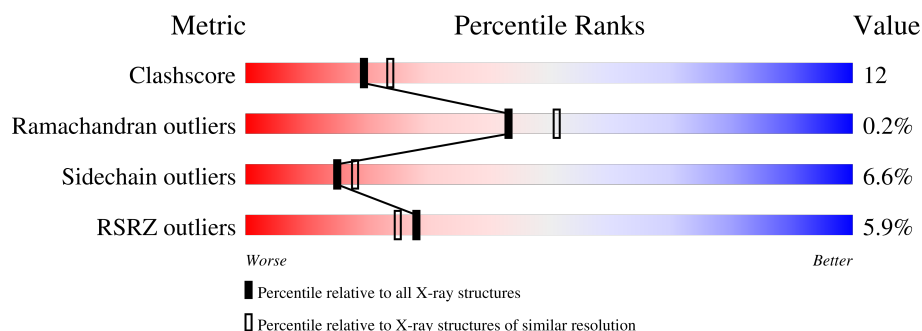
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.20 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))
Clashscore	190562	6851 (2.20-2.20)
Ramachandran outliers	187476	6768 (2.20-2.20)
Sidechain outliers	187428	6769 (2.20-2.20)
RSRZ outliers	180081	6166 (2.20-2.20)

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	211	
1	B	211	

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 3350 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 PHOSPHOSERINE PHOSPHATASE.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	200	Total	C	N	O	S	Se	0	0	0
			1569	1001	265	300	2	1			
1	B	208	Total	C	N	O	S	Se	0	0	0
			1630	1039	275	312	2	2			

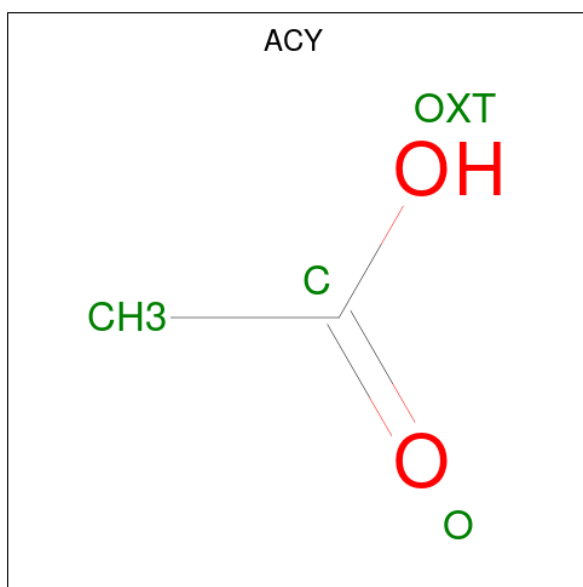
There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	MSE	MET	modified residue	UNP Q58989
A	11	ASN	ASP	engineered mutation	UNP Q58989
A	43	MSE	MET	modified residue	UNP Q58989
A	174	MSE	MET	modified residue	UNP Q58989
B	501	MSE	MET	modified residue	UNP Q58989
B	511	ASN	ASP	engineered mutation	UNP Q58989
B	543	MSE	MET	modified residue	UNP Q58989
B	674	MSE	MET	modified residue	UNP Q58989

- Molecule 2 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	1	Total	Zn	0	0
			1	1		
2	B	2	Total	Zn	0	0
			2	2		

- Molecule 3 is ACETIC ACID (CCD ID: ACY) (formula: C₂H₄O₂).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	O	0	0
			4	2	2		
3	B	1	Total	C	O	0	0
			4	2	2		

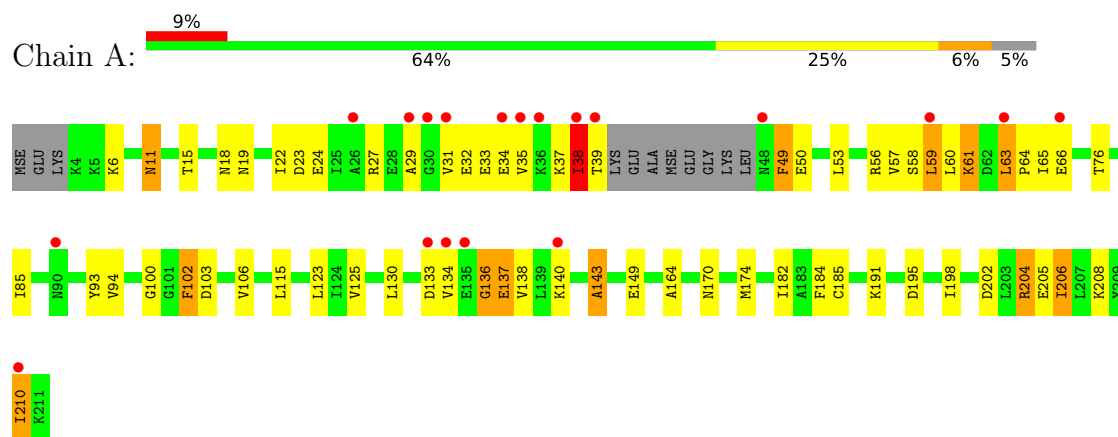
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	47	Total	O	0	0
			47	47		
4	B	93	Total	O	0	0
			93	93		

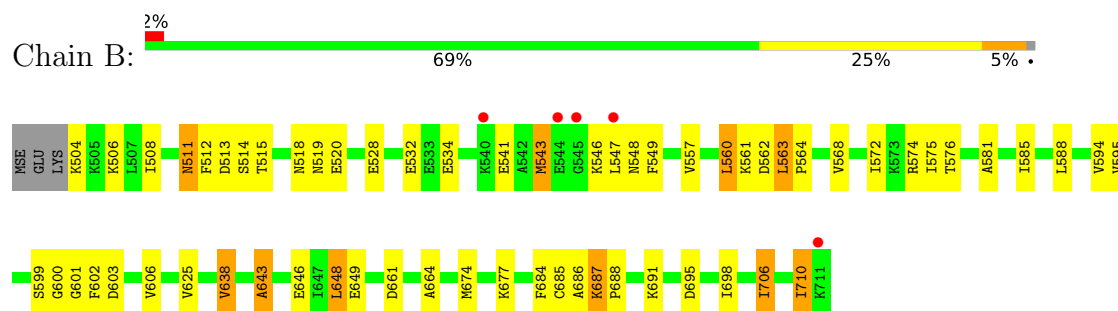
3 Residue-property plots

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: PHOSPHOSERINE PHOSPHATASE



• Molecule 1: PHOSPHOSERINE PHOSPHATASE



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	36.89Å 117.89Å 117.36Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	15.00 – 2.20 15.00 – 2.21	Depositor EDS
% Data completeness (in resolution range)	96.7 (15.00-2.20) 95.1 (15.00-2.21)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.08	Depositor
$\langle I/\sigma(I) \rangle$ ¹	7.62 (at 2.21Å)	Xtriage
Refinement program	CNS 1.0	Depositor
R, R_{free}	0.224 , 0.254 0.230 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å ²)	28.7	Xtriage
Anisotropy	0.863	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.40 , 52.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.000 for -h,l,k	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	3350	wwPDB-VP
Average B, all atoms (Å ²)	40.0	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 23.14 % 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 4.9487e-03. 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: ACY, ZN

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	0.53	0/1579	1.03	12/2106 (0.6%)
1	B	0.57	0/1640	1.03	14/2185 (0.6%)
All	All	0.55	0/3219	1.03	26/4291 (0.6%)

There are no bond length outliers.

All (26) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	102	PHE	N-CA-C	8.41	123.11	109.40
1	B	594	VAL	N-CA-C	-8.38	96.52	108.58
1	B	691	LYS	N-CA-C	7.92	119.55	111.07
1	A	94	VAL	N-CA-C	-7.57	97.68	108.58
1	B	548	ASN	N-CA-C	-7.40	100.56	110.55
1	A	100	GLY	N-CA-C	-7.17	103.36	115.62
1	A	49	PHE	N-CA-C	-7.12	103.52	111.28
1	B	511	ASN	N-CA-C	-7.07	100.02	110.48
1	B	695	ASP	N-CA-C	-6.63	103.54	111.69
1	A	11	ASN	N-CA-C	-6.56	100.77	110.48
1	A	195	ASP	N-CA-C	-6.38	104.54	112.90
1	A	191	LYS	N-CA-C	6.34	118.72	111.11
1	B	519	ASN	N-CA-C	6.32	119.76	110.59
1	A	143	ALA	N-CA-C	6.13	118.47	111.11
1	B	600	GLY	N-CA-C	-6.07	105.76	115.66
1	B	643	ALA	N-CA-C	5.97	118.28	111.11
1	A	210	ILE	N-CA-C	5.91	117.10	108.58
1	A	136	GLY	N-CA-C	5.86	119.68	111.00
1	B	687	LYS	N-CA-C	-5.74	101.85	110.24
1	B	686	ALA	N-CA-C	5.55	118.97	110.36
1	B	602	PHE	N-CA-C	5.31	118.05	109.40
1	A	61	LYS	N-CA-C	5.26	120.05	111.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	710	ILE	N-CA-C	5.19	116.05	108.58
1	A	38	ILE	N-CA-C	-5.16	98.60	109.34
1	B	520	GLU	N-CA-C	-5.13	100.16	108.52
1	B	549	PHE	N-CA-C	5.04	117.16	111.11

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	1569	0	1670	42	0
1	B	1630	0	1737	35	0
2	A	1	0	0	0	0
2	B	2	0	0	0	0
3	A	4	0	3	0	0
3	B	4	0	3	0	0
4	A	47	0	0	1	0
4	B	93	0	0	2	0
All	All	3350	0	3413	77	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 12.

All (77) 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:18:ASN:HD22	1:A:76:THR:HG23	1.51	0.74
1:B:543:MSE:HE1	1:B:687:LYS:NZ	2.02	0.74
1:B:518:ASN:HD22	1:B:576:THR:HG23	1.54	0.72
1:A:33:GLU:O	1:A:37:LYS:HD3	1.90	0.71
1:A:164:ALA:HB1	1:A:174:MSE:HG2	1.77	0.66
1:B:698:ILE:HD13	1:B:706:ILE:HG22	1.78	0.65
1:B:698:ILE:CD1	1:B:706:ILE:HG22	2.29	0.63
1:B:568:VAL:O	1:B:572:ILE:HG12	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:581:ALA:O	1:B:585:ILE:HG12	2.03	0.59
1:B:563:LEU:HD22	1:B:564:PRO:HD2	1.85	0.58
1:A:138:VAL:HA	1:A:143:ALA:HB1	1.86	0.56
1:A:65:ILE:HG23	1:A:66:GLU:OE2	2.03	0.56
1:A:59:LEU:N	1:A:59:LEU:HD23	2.20	0.56
1:B:688:PRO:HG2	4:B:2011:HOH:O	2.06	0.55
1:B:557:VAL:HA	1:B:560:LEU:HD22	1.88	0.55
1:B:649:GLU:HG3	1:B:677:LYS:HD3	1.90	0.54
1:A:102:PHE:CG	1:A:123:LEU:HG	2.42	0.54
1:A:22:ILE:HG23	1:A:23:ASP:N	2.22	0.54
1:B:528:GLU:OE2	1:B:574:ARG:NH2	2.39	0.54
1:B:664:ALA:HB1	1:B:674:MSE:HG2	1.89	0.53
1:B:603:ASP:HA	1:B:606:VAL:HG22	1.91	0.53
1:A:29:ALA:O	1:A:31:VAL:HG13	2.08	0.52
1:B:585:ILE:HD12	1:B:595:VAL:HG11	1.90	0.52
1:B:506:LYS:HG2	1:B:661:ASP:HB3	1.91	0.52
1:A:6:LYS:HD2	1:A:93:TYR:CZ	2.45	0.52
1:A:53:LEU:O	1:A:57:VAL:HG23	2.10	0.52
1:B:543:MSE:HE1	1:B:687:LYS:HZ3	1.72	0.52
1:A:11:ASN:O	1:A:15:THR:HB	2.10	0.51
1:A:202:ASP:OD1	1:A:204:ARG:NH1	2.44	0.51
1:A:37:LYS:O	1:A:38:ILE:HB	2.11	0.50
1:B:532:GLU:HG2	4:B:2128:HOH:O	2.10	0.50
1:A:198:ILE:CD1	1:A:206:ILE:HG22	2.41	0.50
1:B:561:LYS:HE3	1:B:562:ASP:OD2	2.12	0.50
1:A:24:GLU:HA	1:A:24:GLU:OE1	2.13	0.49
1:A:205:GLU:HA	1:A:208:LYS:HZ3	1.77	0.49
1:A:35:VAL:O	1:A:39:THR:HA	2.13	0.49
1:B:599:SER:C	1:B:601:GLY:H	2.21	0.48
1:B:512:PHE:HB3	1:B:599:SER:HB2	1.95	0.48
1:B:512:PHE:CB	1:B:599:SER:HB2	2.44	0.47
1:B:648:LEU:HD12	1:B:648:LEU:O	2.15	0.47
1:A:182:ILE:HD11	1:A:210:ILE:HD11	1.97	0.47
1:A:164:ALA:CB	1:A:174:MSE:HG2	2.45	0.47
1:A:38:ILE:O	1:A:38:ILE:HG23	2.16	0.46
1:A:35:VAL:CG2	1:A:56:ARG:HG2	2.44	0.46
1:B:684:PHE:O	1:B:685:CYS:C	2.57	0.46
1:B:572:ILE:O	1:B:575:ILE:HG12	2.16	0.46
1:A:49:PHE:HB2	1:A:170:ASN:HD21	1.80	0.46
1:A:58:SER:C	1:A:60:LEU:H	2.23	0.46
1:A:29:ALA:HB2	1:A:63:LEU:HG	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:35:VAL:HG23	1:A:56:ARG:HG2	1.97	0.46
1:A:61:LYS:O	1:A:130:LEU:O	2.34	0.46
1:A:27:ARG:HG3	1:A:32:GLU:OE2	2.16	0.46
1:B:508:ILE:HG21	1:B:588:LEU:HD13	1.98	0.45
1:B:638:VAL:HA	1:B:643:ALA:HB1	1.98	0.45
1:A:149:GLU:CD	4:A:2045:HOH:O	2.59	0.45
1:A:63:LEU:HD22	1:A:64:PRO:CD	2.47	0.45
1:A:136:GLY:C	1:A:137:GLU:OE1	2.61	0.44
1:A:184:PHE:O	1:A:185:CYS:C	2.60	0.44
1:B:504:LYS:HE2	1:B:661:ASP:CG	2.42	0.44
1:B:543:MSE:HE1	1:B:687:LYS:HZ2	1.82	0.44
1:A:206:ILE:HD12	1:A:210:ILE:HD13	2.00	0.44
1:A:85:ILE:HD13	1:A:115:LEU:HD21	2.00	0.43
1:B:563:LEU:HD22	1:B:564:PRO:CD	2.48	0.43
1:B:546:LYS:O	1:B:547:LEU:HD12	2.17	0.43
1:A:63:LEU:HA	1:A:64:PRO:HD3	1.91	0.43
1:B:648:LEU:HD12	1:B:648:LEU:C	2.44	0.43
1:A:63:LEU:HD22	1:A:64:PRO:HD2	2.01	0.42
1:B:513:ASP:O	1:B:514:SER:HB2	2.20	0.42
1:B:541:GLU:HG3	1:B:546:LYS:HD2	2.01	0.42
1:A:85:ILE:HD13	1:A:115:LEU:CD2	2.50	0.41
1:A:37:LYS:O	1:A:38:ILE:CB	2.68	0.41
1:A:22:ILE:CG2	1:A:23:ASP:N	2.83	0.41
1:A:202:ASP:CG	1:A:204:ARG:HH12	2.29	0.41
1:A:50:GLU:O	1:A:53:LEU:N	2.55	0.40
1:B:518:ASN:HD22	1:B:576:THR:CG2	2.29	0.40
1:A:58:SER:C	1:A:60:LEU:N	2.79	0.40
1:B:511:ASN:O	1:B:515:THR:HB	2.22	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	196/211 (93%)	182 (93%)	13 (7%)	1 (0%)	24	27
1	B	206/211 (98%)	199 (97%)	7 (3%)	0	100	100
All	All	402/422 (95%)	381 (95%)	20 (5%)	1 (0%)	43	51

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	38	ILE

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	170/176 (97%)	157 (92%)	13 (8%)	12	14
1	B	176/176 (100%)	166 (94%)	10 (6%)	18	23
All	All	346/352 (98%)	323 (93%)	23 (7%)	15	18

All (23) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	19	ASN
1	A	34	GLU
1	A	59	LEU
1	A	63	LEU
1	A	103	ASP
1	A	106	VAL
1	A	125	VAL
1	A	133	ASP
1	A	134	VAL
1	A	137	GLU
1	A	140	LYS
1	A	204	ARG
1	A	206	ILE
1	B	534	GLU
1	B	543	MSE

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Mol	Chain	Res	Type
1	B	560	LEU
1	B	563	LEU
1	B	625	VAL
1	B	638	VAL
1	B	646	GLU
1	B	648	LEU
1	B	706	ILE
1	B	710	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (10) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	11	ASN
1	A	18	ASN
1	A	48	ASN
1	A	51	GLN
1	A	107	ASN
1	A	158	ASN
1	A	170	ASN
1	B	511	ASN
1	B	518	ASN
1	B	670	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 ⓘ

Of 5 ligands modelled in this entry, 3 are monoatomic - leaving 2 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
3	ACY	B	311	2	3,3,3	1.04	0	3,3,3	1.62	1 (33%)
3	ACY	A	312	-	3,3,3	1.07	0	3,3,3	1.57	1 (33%)

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	311	ACY	O-C-CH3	-2.23	113.39	122.53
3	A	312	ACY	O-C-CH3	-2.15	113.71	122.53

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

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	199/211 (94%)	0.57	19 (9%) 14 11	21, 38, 78, 134	0
1	B	206/211 (97%)	-0.02	5 (2%) 59 56	19, 32, 51, 75	0
All	All	405/422 (95%)	0.27	24 (5%) 28 25	19, 34, 70, 134	0

All (24) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	38	ILE	5.0
1	B	545	GLY	3.9
1	A	133	ASP	3.7
1	A	39	THR	3.7
1	A	35	VAL	3.2
1	B	547	LEU	3.2
1	A	31	VAL	3.0
1	A	36	LYS	3.0
1	A	63	LEU	2.8
1	A	59	LEU	2.8
1	A	29	ALA	2.6
1	A	90	ASN	2.6
1	A	48	ASN	2.6
1	B	544	GLU	2.4
1	B	540	LYS	2.4
1	A	34	GLU	2.4
1	A	135	GLU	2.4
1	B	711	LYS	2.4
1	A	140	LYS	2.2
1	A	134	VAL	2.1
1	A	66	GLU	2.1
1	A	210	ILE	2.1
1	A	26	ALA	2.1
1	A	30	GLY	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($\text{\AA}^2$)	Q<0.9
3	ACY	A	312	4/4	0.68	0.24	41,42,43,46	0
3	ACY	B	311	4/4	0.82	0.14	24,29,29,30	0
2	ZN	A	302	1/1	0.98	0.03	44,44,44,44	0
2	ZN	B	303	1/1	0.99	0.02	37,37,37,37	0
2	ZN	B	301	1/1	1.00	0.04	27,27,27,27	0

6.5 Other polymers [i](#)

There are no such residues in this entry.