



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 13, 2017 – 08:49 pm GMT

PDB ID : 4GY0
Title : Round 18 Arylesterase Variant of Phosphotriesterase
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Deposited on : 2012-09-05
Resolution : 1.85 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

<http://wwpdb.org/validation/2016/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Xtriage (Phenix) : 1.9-1692
EDS : trunk28620
Percentile statistics : 20161228.v01 (using entries in the PDB archive December 28th 2016)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : recalc28949

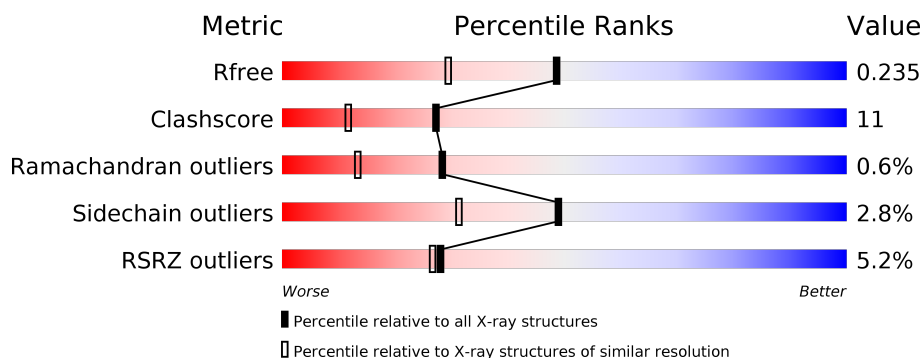
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.85 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}	100719	1923 (1.86-1.86)
Clashscore	112137	2083 (1.86-1.86)
Ramachandran outliers	110173	2060 (1.86-1.86)
Sidechain outliers	110143	2060 (1.86-1.86)
RSRZ outliers	101464	1932 (1.86-1.86)

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 on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. 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	333	 6% 77% 19% ..
1	B	333	 4% 75% 22% ..

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 5850 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 arylesterase variant of phosphotriesterase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	327	Total	C	N	O	S	0	41	0
			2761	1745	486	520	10			
1	B	326	Total	C	N	O	S	0	24	0
			2633	1663	467	494	9			

- Molecule 2 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	B	3	Total	Zn	0	3
			3	3		
2	A	3	Total	Zn	0	3
			3	3		

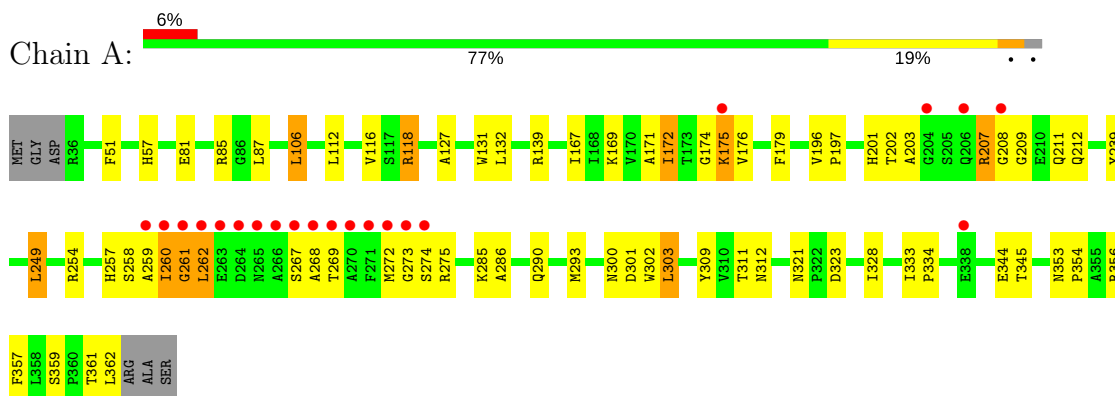
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	230	Total	O	0	1
			230	230		
3	B	220	Total	O	0	0
			220	220		

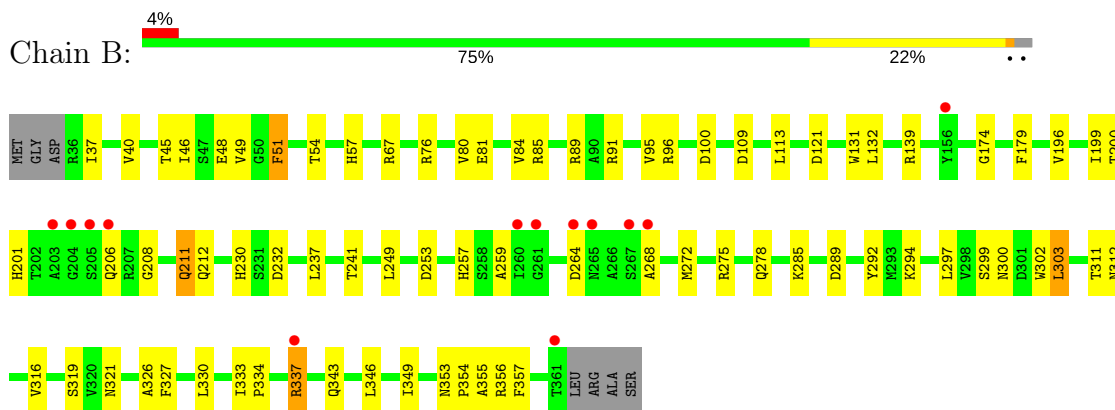
3 Residue-property plots

These plots are drawn for all protein, RNA and DNA 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 ($\text{RSRZ} > 2$). 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: arylesterase variant of phosphotriesterase



- Molecule 1: arylesterase variant of phosphotriesterase



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, α , β , γ	86.11Å 86.37Å 89.19Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	24.46 – 1.85 24.46 – 1.85	Depositor EDS
% Data completeness (in resolution range)	100.0 (24.46-1.85) 100.0 (24.46-1.85)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.64 (at 1.85Å)	Xtriage
Refinement program	PHENIX (phenix.refine: 1.7.1_743)	Depositor
R, R_{free}	0.195 , 0.241 0.191 , 0.235	Depositor DCC
R_{free} test set	2910 reflections (5.07%)	DCC
Wilson B-factor (Å ²)	19.1	Xtriage
Anisotropy	0.612	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 58.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	0.017 for -h,l,k 0.016 for -l,-k,-h 0.017 for k,h,-l 0.005 for k,l,h 0.005 for l,h,k	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	5850	wwPDB-VP
Average B, all atoms (Å ²)	25.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.69% 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: 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	0.41	0/2879	0.56	0/3906
1	B	0.37	0/2738	0.53	0/3715
All	All	0.39	0/5617	0.55	0/7621

There are no bond length outliers.

There are no bond angle outliers.

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	2761	0	2773	70	0
1	B	2633	0	2639	54	0
2	A	3	0	0	0	0
2	B	3	0	0	0	0
3	A	230	0	0	8	0
3	B	220	0	0	5	0
All	All	5850	0	5412	124	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 11.

All (124) 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:91:ARG:O	1:B:96:ARG:NH1	1.98	0.94
1:A:293[A]:MET:HG3	1:A:345:THR:HG23	1.54	0.87
1:A:260:ILE:O	1:A:262:LEU:HD12	1.81	0.80
1:A:202[B]:THR:HG21	3:A:721:HOH:O	1.81	0.78
1:A:254:ARG:NH1	1:A:301[A]:ASP:OD2	2.16	0.77
1:A:169[B]:LYS:NZ	1:A:201[B]:HIS:HB2	1.99	0.77
1:A:201[B]:HIS:NE2	1:A:203:ALA:HB2	2.01	0.75
1:A:260:ILE:HD13	1:A:261:GLY:H	1.52	0.74
1:A:323:ASP:OD1	3:A:633:HOH:O	2.04	0.74
1:A:260:ILE:HG23	1:A:274:SER:HA	1.67	0.74
1:A:172:ILE:HG12	1:A:212[B]:GLN:NE2	2.03	0.74
1:A:260:ILE:CD1	1:A:261:GLY:H	2.03	0.72
1:B:81[A]:GLU:HG3	3:B:616:HOH:O	1.93	0.69
1:A:362:LEU:HA	3:A:623:HOH:O	1.93	0.69
1:B:337:ARG:HD2	1:B:343[A]:GLN:OE1	1.92	0.69
1:B:37:ILE:HD12	1:B:49:VAL:HG21	1.76	0.67
1:B:285:LYS:NZ	1:B:289:ASP:OD2	2.27	0.67
1:B:278:GLN:OE1	3:B:646:HOH:O	2.13	0.65
1:A:196[B]:VAL:HG13	1:A:197:PRO:HD2	1.79	0.64
1:A:81:GLU:CD	1:A:85:ARG:HE	2.01	0.64
1:B:45:THR:OG1	1:B:48:GLU:HG3	1.98	0.63
1:B:51:PHE:C	1:B:51:PHE:HD2	2.01	0.62
1:A:333:ILE:HB	1:A:334:PRO:HD3	1.80	0.62
1:B:302:TRP:CH2	1:B:321:ASN:HB3	2.35	0.62
1:A:202[B]:THR:HG22	1:A:212[B]:GLN:NE2	2.14	0.62
1:B:57:HIS:HB2	1:B:303:LEU:HB3	1.82	0.62
1:A:260:ILE:H	1:A:260:ILE:HD12	1.66	0.61
1:A:249[A]:LEU:HD13	1:A:357:PHE:CD1	2.35	0.61
1:B:199:ILE:HD11	3:B:714:HOH:O	2.01	0.61
1:A:260:ILE:O	1:A:262:LEU:N	2.29	0.60
1:B:51:PHE:C	1:B:51:PHE:CD2	2.74	0.60
1:A:169[B]:LYS:HZ2	1:A:201[B]:HIS:HB2	1.63	0.60
1:A:361[B]:THR:HG21	3:A:571:HOH:O	2.02	0.59
1:B:241[A]:THR:HG23	1:B:292:TYR:CE2	2.37	0.59
1:A:258:SER:HB3	1:A:275:ARG:O	2.01	0.59
1:A:285:LYS:NZ	3:A:616:HOH:O	2.35	0.59
1:A:118:ARG:HH11	1:A:118:ARG:CG	2.15	0.59
1:B:91:ARG:NH2	1:B:121:ASP:OD2	2.23	0.59
1:B:76:ARG:NH2	1:B:109[B]:ASP:OD2	2.36	0.58
1:A:87:LEU:HD12	1:A:116[B]:VAL:HG12	1.84	0.58
1:B:353:ASN:HB2	1:B:354:PRO:HD3	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:249[B]:LEU:HD22	1:A:357:PHE:CD1	2.40	0.57
1:A:353:ASN:HB2	1:A:354:PRO:HD3	1.87	0.56
1:B:333:ILE:HB	1:B:334:PRO:HD3	1.86	0.56
1:A:171:ALA:HA	1:A:201[B]:HIS:O	2.05	0.56
1:A:201[B]:HIS:HD2	1:A:202[B]:THR:N	2.04	0.56
1:A:169[B]:LYS:HZ2	1:A:201[B]:HIS:CB	2.19	0.55
1:B:57:HIS:O	1:B:303:LEU:HA	2.07	0.55
1:B:257:HIS:ND1	1:B:272[A]:MET:HG2	2.22	0.55
1:A:201[B]:HIS:CD2	1:A:201[B]:HIS:C	2.79	0.54
1:B:46:ILE:HG23	1:B:355:ALA:HB1	1.89	0.54
1:B:174:GLY:HA2	1:B:206:GLN:OE1	2.07	0.54
1:A:260:ILE:CG2	1:A:274:SER:HA	2.37	0.53
1:A:209:GLY:HA2	1:A:212[A]:GLN:NE2	2.24	0.53
1:B:85[B]:ARG:HG2	1:B:89:ARG:NH1	2.25	0.52
1:A:112:LEU:O	1:A:116[A]:VAL:HG22	2.10	0.52
1:B:253:ASP:OD2	3:B:714:HOH:O	2.19	0.52
1:B:131:TRP:CG	1:B:132:LEU:N	2.78	0.51
1:A:118:ARG:HG3	1:A:118:ARG:HH11	1.76	0.51
1:A:300:ASN:OD1	1:A:328:ILE:HG12	2.11	0.51
1:A:260:ILE:CD1	1:A:261:GLY:N	2.72	0.51
1:B:199:ILE:HD12	1:B:200[A]:THR:H	1.76	0.50
1:A:176:VAL:HG23	1:A:211[A]:GLN:OE1	2.12	0.50
1:A:207:ARG:HA	1:A:239:TYR:CZ	2.47	0.49
1:B:201[A]:HIS:CD2	1:B:230[A]:HIS:CD2	3.00	0.49
1:B:54[A]:THR:HG21	1:B:297:LEU:HB3	1.93	0.49
1:A:131:TRP:CG	1:A:132:LEU:N	2.79	0.49
1:A:201[B]:HIS:CE1	3:A:724:HOH:O	2.64	0.49
1:B:237:LEU:O	1:B:241[B]:THR:HG23	2.13	0.49
1:B:232:ASP:O	1:B:275:ARG:NH1	2.43	0.49
1:B:85[B]:ARG:HG2	1:B:89:ARG:HH12	1.76	0.49
1:A:257:HIS:O	1:A:272[A]:MET:HB3	2.13	0.49
1:A:169[B]:LYS:HZ1	1:A:201[B]:HIS:HB2	1.74	0.48
1:A:118:ARG:NH1	1:A:118:ARG:CG	2.74	0.48
1:B:208:GLY:HA2	1:B:211:GLN:OE1	2.13	0.48
1:B:37:ILE:HD12	1:B:49:VAL:CG2	2.44	0.47
1:A:249[B]:LEU:HD21	3:A:729:HOH:O	2.13	0.47
1:B:139:ARG:HA	1:B:179:PHE:CE1	2.49	0.47
1:B:330:LEU:O	1:B:334:PRO:HG2	2.14	0.47
1:B:300:ASN:OD1	1:B:327:PHE:HB3	2.15	0.47
1:A:81:GLU:OE2	1:A:85:ARG:NE	2.39	0.46
1:A:106:LEU:HD13	1:A:131:TRP:CE3	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:257:HIS:O	1:A:272[B]:MET:HB3	2.16	0.46
1:A:311:THR:O	1:A:312[B]:ASN:ND2	2.43	0.45
1:A:87:LEU:HD12	1:A:116[B]:VAL:CG1	2.45	0.45
1:A:353:ASN:OD1	1:A:356[B]:ARG:NH2	2.49	0.45
1:A:127:ALA:HB2	1:A:167[B]:ILE:HD11	1.99	0.45
1:A:175:LYS:HB3	1:A:175:LYS:HE2	1.68	0.45
1:A:267:SER:HB2	1:A:309:TYR:OH	2.15	0.45
1:B:208:GLY:O	1:B:212:GLN:HG3	2.17	0.45
1:B:349:ILE:HA	1:B:353:ASN:ND2	2.32	0.45
1:B:268:ALA:HB1	1:B:272[B]:MET:CE	2.47	0.45
1:B:40:VAL:HG11	1:B:113:LEU:HB3	1.99	0.45
1:A:139:ARG:HA	1:A:179:PHE:CE1	2.52	0.44
1:A:302:TRP:CH2	1:A:321:ASN:HB3	2.52	0.44
1:B:91:ARG:HA	1:B:95:VAL:O	2.18	0.44
1:A:311:THR:O	1:A:312[B]:ASN:CB	2.66	0.44
1:B:294:LYS:O	1:B:356:ARG:NH2	2.48	0.44
1:B:57:HIS:HA	1:B:100[A]:ASP:OD1	2.18	0.44
1:B:67:ARG:NH2	3:B:631:HOH:O	2.51	0.44
1:A:260:ILE:HG23	1:A:273:GLY:O	2.18	0.43
1:B:316:VAL:O	1:B:319[B]:SER:OG	2.30	0.43
1:B:311:THR:O	1:B:312:ASN:HB2	2.18	0.43
1:A:207:ARG:HA	1:A:239:TYR:CE2	2.54	0.42
1:A:57:HIS:HB2	1:A:303:LEU:HB3	2.01	0.42
1:B:326:ALA:O	1:B:330:LEU:HB2	2.20	0.42
1:B:201[A]:HIS:CD2	1:B:230[A]:HIS:HD2	2.38	0.42
1:B:333:ILE:HG23	1:B:346:LEU:HD13	2.00	0.42
1:A:201[B]:HIS:CD2	1:A:202[B]:THR:N	2.86	0.42
1:A:286:ALA:O	1:A:290:GLN:HG3	2.19	0.42
1:B:249:LEU:HD22	1:B:357:PHE:CD1	2.55	0.42
1:A:359[B]:SER:O	1:A:361[B]:THR:HG23	2.20	0.41
1:B:80:VAL:O	1:B:84:VAL:HG23	2.20	0.41
1:A:171:ALA:HB2	1:A:201[B]:HIS:HB3	2.01	0.41
1:A:356[A]:ARG:NH2	3:A:689:HOH:O	2.53	0.41
1:B:199:ILE:HD12	1:B:200[B]:THR:H	1.84	0.41
1:B:259:ALA:HA	1:B:272[B]:MET:HE3	2.03	0.41
1:B:326:ALA:HB1	1:B:330:LEU:HD12	2.02	0.41
1:A:269:THR:HG23	1:A:273:GLY:O	2.20	0.41
1:A:268:ALA:O	1:A:272[B]:MET:HB2	2.21	0.40
1:A:260:ILE:C	1:A:262:LEU:H	2.19	0.40
1:B:264:ASP:N	1:B:264:ASP:OD1	2.50	0.40
1:A:208:GLY:O	1:A:212[A]:GLN:NE2	2.53	0.40

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	365/333 (110%)	349 (96%)	12 (3%)	4 (1%)	17	5
1	B	348/333 (104%)	335 (96%)	13 (4%)	0	100	100
All	All	713/666 (107%)	684 (96%)	25 (4%)	4 (1%)	28	13

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	174	GLY
1	A	259	ALA
1	A	261	GLY
1	A	207	ARG

5.3.2 Protein sidechains [i](#)

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	305/269 (113%)	295 (97%)	10 (3%)	43	24
1	B	288/269 (107%)	282 (98%)	6 (2%)	59	43
All	All	593/538 (110%)	577 (97%)	16 (3%)	49	33

All (16) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	51	PHE
1	A	106	LEU
1	A	118	ARG
1	A	172	ILE
1	A	175	LYS
1	A	249[A]	LEU
1	A	249[B]	LEU
1	A	260	ILE
1	A	262	LEU
1	A	303	LEU
1	B	51	PHE
1	B	196	VAL
1	B	211	GLN
1	B	299	SER
1	B	303	LEU
1	B	337	ARG

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	206	GLN

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 carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 6 ligands modelled in this entry, 6 are monoatomic - leaving 0 for Mogul analysis.

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.

No monomer is involved in short contacts.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

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	327/333 (98%)	0.26	21 (6%)	20 19	8, 18, 59, 157	0
1	B	326/333 (97%)	0.11	13 (3%)	39 37	10, 23, 44, 69	1 (0%)
All	All	653/666 (98%)	0.18	34 (5%)	28 27	8, 20, 49, 157	1 (0%)

All (34) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	268	ALA	17.8
1	A	266	ALA	13.3
1	A	260	ILE	9.9
1	A	271	PHE	9.7
1	A	267	SER	7.0
1	A	264	ASP	6.8
1	A	274	SER	6.7
1	A	265	ASN	6.4
1	A	273	GLY	5.9
1	A	269	THR	5.7
1	A	262	LEU	5.5
1	A	270	ALA	4.7
1	A	204	GLY	4.6
1	A	272[A]	MET	4.6
1	B	261	GLY	3.8
1	A	263	GLU	3.8
1	B	204	GLY	3.5
1	A	261	GLY	3.4
1	B	205	SER	3.3
1	A	175	LYS	2.7
1	B	260	ILE	2.7
1	B	264	ASP	2.4
1	B	337	ARG	2.3
1	B	265	ASN	2.3

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Mol	Chain	Res	Type	RSRZ
1	B	203	ALA	2.3
1	B	268	ALA	2.3
1	B	361	THR	2.2
1	B	206	GLN	2.2
1	B	267	SER	2.2
1	A	206	GLN	2.2
1	A	259	ALA	2.2
1	A	338[A]	GLU	2.1
1	A	208	GLY	2.0
1	B	156	TYR	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 carbohydrates 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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors(Å ²)	Q<0.9
2	ZN	B	402[A]	1/1	0.98	0.10	-0.49	21,21,21,21	1
2	ZN	A	402[A]	1/1	0.98	0.09	-0.77	23,23,23,23	1
2	ZN	B	403[B]	1/1	0.99	0.04	-2.15	22,22,22,22	1
2	ZN	B	401[A]	1/1	0.95	0.04	-2.16	26,26,26,26	1
2	ZN	A	403[B]	1/1	0.99	0.03	-2.50	15,15,15,15	1
2	ZN	A	401[A]	1/1	0.97	0.04	-2.51	28,28,28,28	1

6.5 Other polymers [i](#)

There are no such residues in this entry.