



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 02:36 AM UTC

PDB ID : 5TD9 / pdb_00005td9
Title : Structure of Human Enolase 2
Authors : Leonard, P.G.; Muller, F.L.
Deposited on : 2016-09-19
Resolution : 2.32 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
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

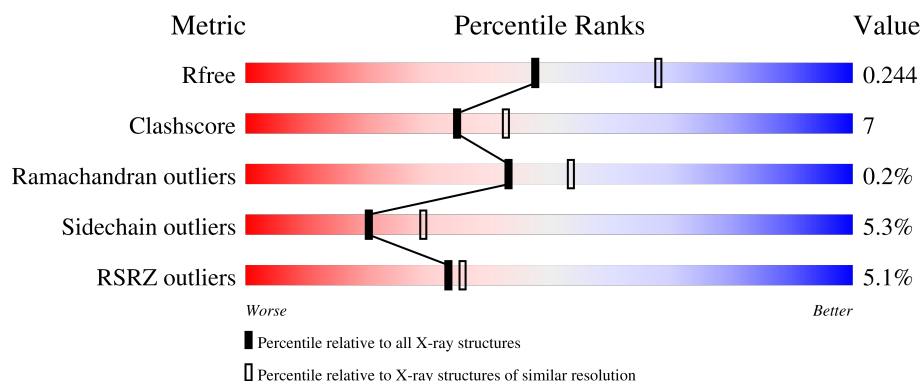
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

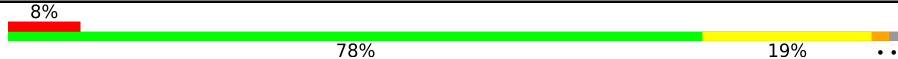
The reported resolution of this entry is 2.32 Å.

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	7754 (2.34-2.30)
Clashscore	190562	8383 (2.34-2.30)
Ramachandran outliers	187476	8303 (2.34-2.30)
Sidechain outliers	187428	8303 (2.34-2.30)
RSRZ outliers	180081	7760 (2.34-2.30)

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	440	
1	B	440	

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 6734 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 Gamma-enolase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	434	Total	C	N	O	S	0	0	0
			3322	2089	569	650	14			
1	B	434	Total	C	N	O	S	0	0	0
			3322	2089	569	650	14			

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	435	HIS	-	expression tag	UNP P09104
A	436	HIS	-	expression tag	UNP P09104
A	437	HIS	-	expression tag	UNP P09104
A	438	HIS	-	expression tag	UNP P09104
A	439	HIS	-	expression tag	UNP P09104
A	440	HIS	-	expression tag	UNP P09104
B	435	HIS	-	expression tag	UNP P09104
B	436	HIS	-	expression tag	UNP P09104
B	437	HIS	-	expression tag	UNP P09104
B	438	HIS	-	expression tag	UNP P09104
B	439	HIS	-	expression tag	UNP P09104
B	440	HIS	-	expression tag	UNP P09104

- Molecule 2 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

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

- Molecule 3 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	1	Total 1	Cl 1	0	0
3	B	1	Total 1	Cl 1	0	0

- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	41	Total 41	O 41	0	0
4	B	45	Total 45	O 45	0	0

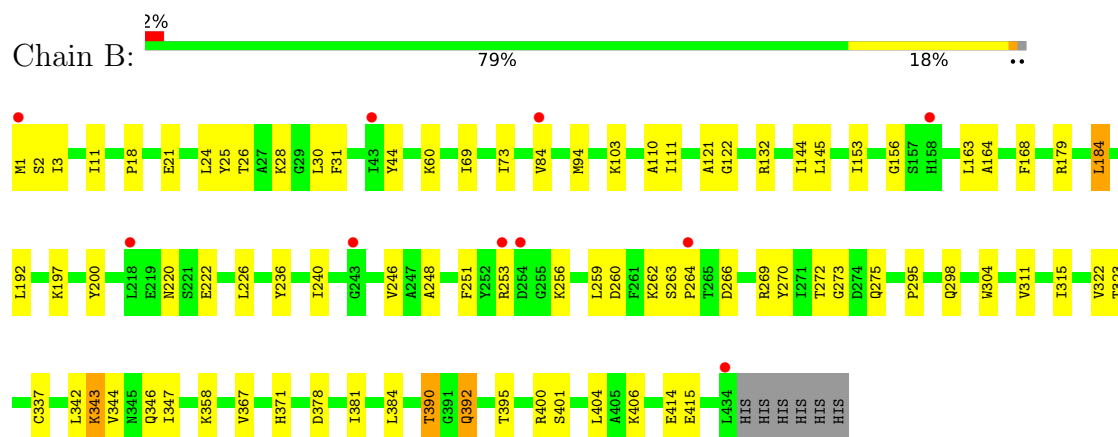
3 Residue-property plots [i](#)

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: Gamma-enolase



• Molecule 1: Gamma-enolase



4 Data and refinement statistics

Property	Value	Source
Space group	P 2 ₁ 2 ₁ 2 ₁	Depositor
Cell constants a, b, c, α , β , γ	68.32Å 112.87Å 119.92Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	43.51 – 2.32 43.51 – 2.32	Depositor EDS
% Data completeness (in resolution range)	99.6 (43.51-2.32) 95.6 (43.51-2.32)	Depositor EDS
R_{merge}	0.11	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	6.36 (at 2.32Å)	Xtriage
Refinement program	PHENIX 1.10.1-2155-000	Depositor
R, R_{free}	0.200 , 0.245 0.201 , 0.244	Depositor DCC
R_{free} test set	2017 reflections (4.94%)	wwPDB-VP
Wilson B-factor (Å ²)	31.9	Xtriage
Anisotropy	1.133	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.30 , 40.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.46$, $\langle L^2 \rangle = 0.29$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	6734	wwPDB-VP
Average B, all atoms (Å ²)	57.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.53% 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: CL, MG

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	0.16	0/3377	0.37	0/4568
1	B	0.16	0/3377	0.36	0/4568
All	All	0.16	0/6754	0.37	0/9136

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	3322	0	3299	52	0
1	B	3322	0	3299	50	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
3	A	1	0	0	0	0
3	B	1	0	0	0	0
4	A	41	0	0	0	0
4	B	45	0	0	1	0
All	All	6734	0	6598	99	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 (99) 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:256:LYS:HD2	1:A:270:TYR:HB2	1.60	0.83
1:A:245:ASP:HA	1:A:293:GLU:HB3	1.69	0.73
1:A:162:LYS:HG3	1:A:218:LEU:HA	1.69	0.72
1:B:26:THR:HG23	1:B:28:LYS:H	1.55	0.71
1:B:103:LYS:HG2	1:B:111:ILE:HD12	1.72	0.71
1:A:390:THR:HG22	1:A:392:GLN:H	1.57	0.69
1:A:200:TYR:OH	1:A:222:GLU:OE1	2.13	0.67
1:A:153:ILE:HB	1:A:168:PHE:HB2	1.78	0.66
1:A:98:ASP:OD2	1:A:100:THR:OG1	2.15	0.65
1:B:84:VAL:HG13	1:B:122:GLY:HA2	1.80	0.64
1:A:9:ARG:NH2	1:A:23:ASP:OD1	2.30	0.63
1:B:390:THR:HG22	1:B:392:GLN:H	1.66	0.59
1:A:256:LYS:HB2	1:A:270:TYR:HB3	1.85	0.59
1:A:282:ASP:HA	1:A:285:ARG:HG2	1.85	0.58
1:B:272:THR:HG23	1:B:275:GLN:H	1.66	0.58
1:A:367:VAL:O	1:A:390:THR:HG23	2.03	0.58
1:B:179:ARG:HH21	1:B:414:GLU:HG2	1.68	0.58
1:A:167:GLU:HB2	1:A:245:ASP:HB3	1.85	0.58
1:B:11:ILE:HD13	1:B:21:GLU:HB2	1.85	0.57
1:A:88:GLU:HG3	1:A:351:THR:HG21	1.86	0.56
1:A:371:HIS:CG	1:A:395:THR:HA	2.42	0.55
1:A:241:VAL:HG23	1:A:288:PRO:HB2	1.89	0.55
1:A:294:ASP:HA	1:A:304:TRP:CH2	2.42	0.54
1:A:272:THR:HG22	1:A:274:ASP:H	1.73	0.54
1:A:295:PRO:HD2	1:A:304:TRP:CH2	2.43	0.54
1:B:153:ILE:HD11	1:B:192:LEU:HD21	1.90	0.54
1:B:73:ILE:HD13	1:B:94:MET:HE3	1.90	0.54
1:A:271:ILE:HD12	1:A:275:GLN:HB2	1.90	0.53
1:B:256:LYS:HB2	1:B:270:TYR:HB3	1.90	0.53
1:B:371:HIS:CG	1:B:395:THR:HA	2.43	0.53
1:A:95:LEU:HD21	1:A:103:LYS:HE3	1.90	0.53
1:B:200:TYR:OH	1:B:222:GLU:OE1	2.19	0.53
1:B:323:THR:HG23	1:B:342:LEU:HD12	1.91	0.52
1:B:163:LEU:HD11	1:B:220:ASN:HA	1.92	0.51
1:B:367:VAL:O	1:B:390:THR:HG23	2.10	0.51
1:A:9:ARG:NH1	1:B:415:GLU:OE1	2.44	0.51
1:A:182:MET:SD	1:A:407:TYR:HB3	2.50	0.51
1:A:150:PHE:HZ	1:A:182:MET:HE2	1.75	0.51
1:B:84:VAL:HG21	1:B:121:ALA:HB3	1.93	0.51
1:A:300:ASP:O	1:A:304:TRP:HD1	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:18:PRO:HG2	1:B:60:LYS:O	2.11	0.50
1:A:396:GLY:HA3	1:A:403:ARG:HD2	1.94	0.50
1:A:166:GLN:HG2	1:A:167:GLU:HG3	1.94	0.50
1:B:44:TYR:HB2	1:B:322:VAL:HG21	1.94	0.49
1:B:266:ASP:O	1:B:269:ARG:HG2	2.12	0.49
1:B:343:LYS:HB2	1:B:346:GLN:HB2	1.93	0.49
1:A:44:TYR:HB2	1:A:322:VAL:HG21	1.95	0.49
1:B:260:ASP:HB3	1:B:269:ARG:HD2	1.95	0.48
1:B:1:MET:HG3	1:B:2:SER:H	1.78	0.48
1:B:367:VAL:O	1:B:392:GLN:HG3	2.14	0.48
1:B:11:ILE:O	1:B:18:PRO:HA	2.14	0.48
1:B:153:ILE:HB	1:B:168:PHE:HB2	1.95	0.48
1:A:69:ILE:HD11	1:A:110:ALA:HA	1.96	0.47
1:A:294:ASP:HA	1:A:304:TRP:HH2	1.77	0.47
1:B:295:PRO:HD2	1:B:304:TRP:CH2	2.49	0.47
1:B:156:GLY:O	1:B:262:LYS:NZ	2.35	0.46
1:B:248:ALA:HA	1:B:251:PHE:CE1	2.50	0.46
1:B:253:ARG:HA	1:B:253:ARG:HD3	1.73	0.46
1:B:164:ALA:HB2	1:B:259:LEU:O	2.16	0.45
1:A:162:LYS:H	1:A:162:LYS:HG2	1.56	0.45
1:B:272:THR:HG22	1:B:275:GLN:OE1	2.16	0.45
1:A:402:GLU:HB3	1:B:401:SER:HB2	1.99	0.45
1:B:69:ILE:HD11	1:B:110:ALA:HA	1.99	0.45
1:A:251:PHE:HB2	1:A:258:ASP:O	2.18	0.44
1:A:168:PHE:HZ	1:A:220:ASN:HB3	1.82	0.44
1:A:305:SER:OG	1:A:334:GLU:O	2.31	0.44
1:A:165:MET:HE1	1:A:280:TYR:HE2	1.82	0.43
1:B:25:TYR:CZ	1:B:30:LEU:HD12	2.52	0.43
1:A:341:LEU:HD11	1:A:370:SER:HB2	2.00	0.43
1:A:200:TYR:CZ	1:A:217:ILE:HD11	2.53	0.43
1:B:260:ASP:O	1:B:263:SER:HB2	2.18	0.43
1:A:296:PHE:HB2	1:A:304:TRP:NE1	2.33	0.43
1:B:26:THR:HG22	1:B:31:PHE:HE2	1.83	0.42
1:B:73:ILE:HG21	1:B:94:MET:HE3	2.01	0.42
1:A:266:ASP:OD1	1:A:268:SER:HB3	2.19	0.42
1:A:103:LYS:HB3	1:A:111:ILE:HD12	2.01	0.42
1:A:151:ASN:O	1:A:397:ALA:HB2	2.19	0.42
1:B:358:LYS:HD3	1:B:358:LYS:HA	1.87	0.42
1:A:320:LEU:O	1:A:327:ARG:HD3	2.19	0.42
1:A:109:ASN:N	1:A:109:ASN:OD1	2.51	0.42
1:B:378:ASP:O	1:B:406:LYS:NZ	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:77:LEU:HD11	1:A:94:MET:SD	2.60	0.42
1:B:256:LYS:CB	1:B:270:TYR:HB3	2.49	0.41
1:B:263:SER:HB3	1:B:264:PRO:HD2	2.01	0.41
1:B:344:VAL:HG23	4:B:607:HOH:O	2.20	0.41
1:A:322:VAL:HG23	1:A:324:ASN:HB2	2.03	0.41
1:B:184:LEU:HB3	1:B:240:ILE:HD11	2.02	0.41
1:B:272:THR:OG1	1:B:273:GLY:N	2.53	0.41
1:B:381:ILE:HA	1:B:384:LEU:HB3	2.03	0.41
1:A:352:GLU:HA	1:A:355:GLN:HG2	2.03	0.41
1:B:315:ILE:O	1:B:337:CYS:HB2	2.21	0.41
1:A:222:GLU:O	1:A:226:LEU:HB2	2.20	0.41
1:A:200:TYR:OH	1:A:217:ILE:HD11	2.21	0.41
1:A:262:LYS:NZ	1:A:263:SER:HB3	2.36	0.41
1:A:341:LEU:HD12	1:A:341:LEU:HA	1.94	0.41
1:B:184:LEU:HD22	1:B:236:TYR:CZ	2.56	0.41
1:A:281:GLN:NE2	1:A:310:ASN:OD1	2.53	0.41
1:A:412:ARG:NH2	1:B:21:GLU:OE2	2.35	0.40
1:B:3:ILE:HD13	1:B:24:LEU:HD11	2.04	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	432/440 (98%)	419 (97%)	12 (3%)	1 (0%)	43	53
1	B	432/440 (98%)	415 (96%)	16 (4%)	1 (0%)	43	53
All	All	864/880 (98%)	834 (96%)	28 (3%)	2 (0%)	43	53

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	400	ARG
1	B	400	ARG

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	351/357 (98%)	328 (93%)	23 (7%)	15	21
1	B	351/357 (98%)	337 (96%)	14 (4%)	28	41
All	All	702/714 (98%)	665 (95%)	37 (5%)	20	29

All (37) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	9	ARG
1	A	41	THR
1	A	58	LEU
1	A	97	LEU
1	A	144	ILE
1	A	202	LYS
1	A	210	GLU
1	A	233	LYS
1	A	256	LYS
1	A	262	LYS
1	A	266	ASP
1	A	269	ARG
1	A	271	ILE
1	A	275	GLN
1	A	306	LYS
1	A	316	VAL
1	A	320	LEU
1	A	323	THR
1	A	327	ARG
1	A	359	LEU
1	A	390	THR
1	A	404	LEU

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Mol	Chain	Res	Type
1	A	420	GLU
1	B	132	ARG
1	B	144	ILE
1	B	145	LEU
1	B	184	LEU
1	B	197	LYS
1	B	226	LEU
1	B	246	VAL
1	B	298	GLN
1	B	311	VAL
1	B	343	LYS
1	B	347	ILE
1	B	390	THR
1	B	392	GLN
1	B	404	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (8) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	68	HIS
1	A	140	ASN
1	A	151	ASN
1	A	154	ASN
1	A	281	GLN
1	A	361	GLN
1	B	154	ASN
1	B	206	ASN

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

Of 4 ligands modelled in this entry, 4 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	434/440 (98%)	0.54	34 (7%) 19 21	28, 56, 111, 178	0
1	B	434/440 (98%)	0.24	10 (2%) 61 63	29, 47, 79, 118	0
All	All	868/880 (98%)	0.39	44 (5%) 33 36	28, 52, 101, 178	0

All (44) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	158	HIS	3.8
1	A	39	ALA	3.8
1	A	217	ILE	3.3
1	A	267	PRO	3.0
1	B	264	PRO	3.0
1	A	37	SER	3.0
1	A	142	ASP	3.0
1	A	158	HIS	3.0
1	A	255	GLY	2.8
1	B	1	MET	2.8
1	A	257	TYR	2.8
1	A	290	VAL	2.7
1	A	271	ILE	2.7
1	A	259	LEU	2.7
1	A	1	MET	2.6
1	A	296	PHE	2.6
1	A	274	ASP	2.5
1	A	307	PHE	2.5
1	A	328	ILE	2.5
1	A	279	LEU	2.5
1	A	220	ASN	2.4
1	A	430	ASN	2.4
1	A	164	ALA	2.4
1	A	264	PRO	2.4

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Mol	Chain	Res	Type	RSRZ
1	B	253	ARG	2.3
1	B	84	VAL	2.3
1	A	303	ALA	2.3
1	B	43	ILE	2.3
1	B	254	ASP	2.2
1	B	243	GLY	2.2
1	A	302	ALA	2.2
1	A	268	SER	2.2
1	B	434	LEU	2.2
1	A	283	PHE	2.1
1	B	218	LEU	2.1
1	A	278	ALA	2.1
1	A	43	ILE	2.1
1	A	287	TYR	2.1
1	A	160	GLY	2.1
1	A	312	GLY	2.1
1	A	153	ILE	2.0
1	A	249	SER	2.0
1	A	202	LYS	2.0
1	A	326	LYS	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	CL	B	502	1/1	0.90	0.18	83,83,83,83	0
3	CL	A	502	1/1	0.93	0.23	66,66,66,66	0
2	MG	A	501	1/1	0.95	0.06	74,74,74,74	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	MG	B	501	1/1	0.95	0.06	47,47,47,47	0

6.5 Other polymers [i](#)

There are no such residues in this entry.