



Full wwPDB X-ray Structure Validation Report ⓘ

Apr 29, 2025 – 02:09 AM EDT

PDB ID : 1XTI / pdb_00001xti
Title : Structure of Wildtype human UAP56
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Deposited on : 2004-10-21
Resolution : 1.95 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 Phenix2.0rc1
Mogul : 2022.3.0, CSD as543be (2022)
Xtriage (Phenix) : 2.0rc1
EDS : 3.0
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4 : 9.0.006 (Gargrove)
Density-Fitness : 1.0.12
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.43.1

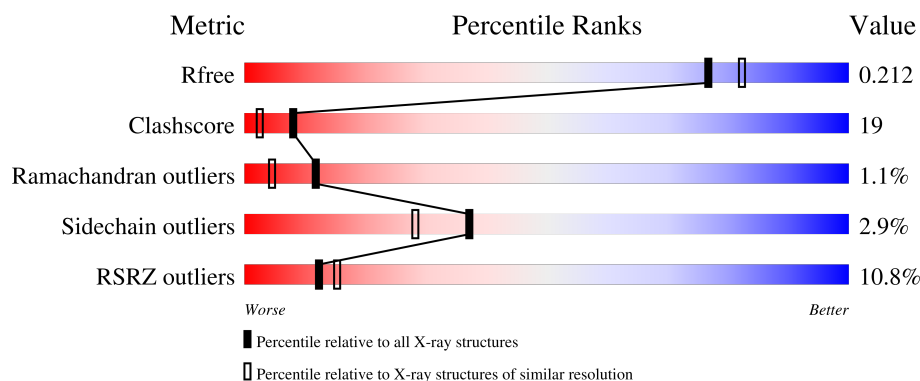
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.95 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}	164625	3187 (1.96-1.96)
Clashscore	180529	3412 (1.96-1.96)
Ramachandran outliers	177936	3390 (1.96-1.96)
Sidechain outliers	177891	3390 (1.96-1.96)
RSRZ outliers	164620	3186 (1.96-1.96)

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	391	10% 62% 32% • •

2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 3348 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.

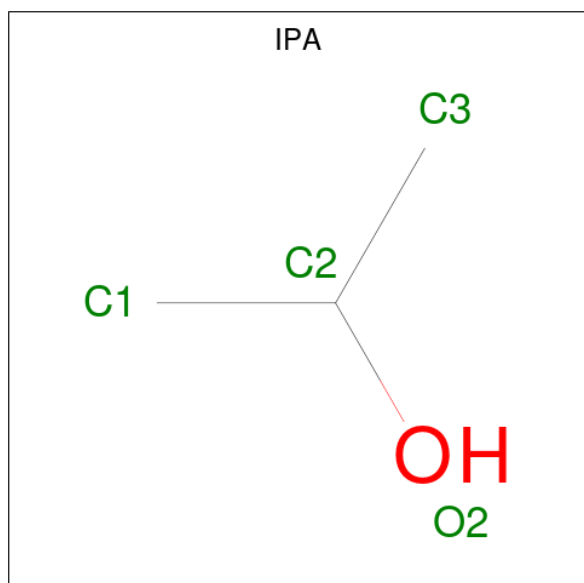
- Molecule 1 is a protein called Probable ATP-dependent RNA helicase p47.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	381	3087	1966	536	563	22	0	0	0

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	38	GLY	-	cloning artifact	UNP Q13838
A	39	SER	-	cloning artifact	UNP Q13838
A	40	PRO	-	cloning artifact	UNP Q13838
A	41	GLY	-	cloning artifact	UNP Q13838
A	42	HIS	-	cloning artifact	UNP Q13838
A	43	MET	-	cloning artifact	UNP Q13838
A	44	SER	-	cloning artifact	UNP Q13838
A	45	SER	-	cloning artifact	UNP Q13838

- Molecule 2 is ISOPROPYL ALCOHOL (CCD ID: IPA) (formula: C_3H_8O).



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

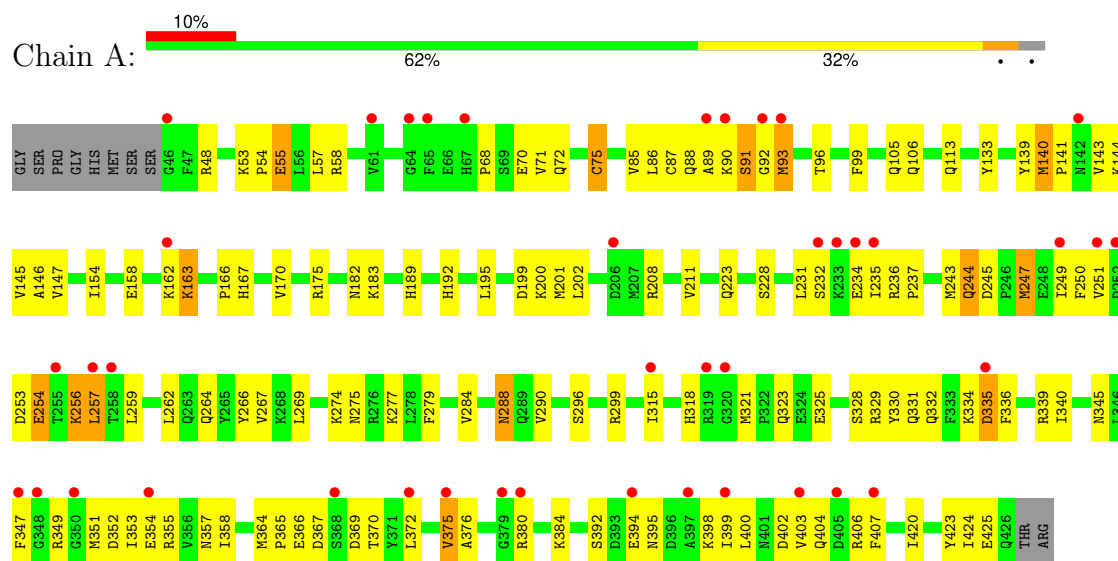
- Molecule 3 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	245	Total O 245 245	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: Probable ATP-dependent RNA helicase p47



4 Data and refinement statistics

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, α , β , γ	37.16Å 49.91Å 62.66Å 95.70° 101.60° 111.14°	Depositor
Resolution (Å)	33.10 – 1.95 33.10 – 1.95	Depositor EDS
% Data completeness (in resolution range)	(Not available) (33.10-1.95) 96.0 (33.10-1.95)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.78 (at 1.95Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.218 , 0.257 0.219 , 0.212	Depositor DCC
R_{free} test set	1494 reflections (5.06%)	wwPDB-VP
Wilson B-factor (Å ²)	28.6	Xtriage
Anisotropy	0.649	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 41.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	3348	wwPDB-VP
Average B, all atoms (Å ²)	40.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.48% 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: IPA

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	0.40	0/3142	0.92	11/4229 (0.3%)

There are no bond length outliers.

All (11) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	375	VAL	N-CA-C	9.39	121.23	111.00
1	A	75	CYS	N-CA-C	6.16	120.87	112.68
1	A	288	ASN	N-CA-C	-6.05	103.33	112.04
1	A	247	MET	N-CA-C	-5.86	100.44	109.76
1	A	284	VAL	N-CA-C	5.42	117.32	111.58
1	A	340	ILE	N-CA-C	5.41	115.91	108.12
1	A	140	MET	CA-C-N	5.23	126.37	119.84
1	A	140	MET	C-N-CA	5.23	126.37	119.84
1	A	143	VAL	N-CA-C	5.20	115.79	109.30
1	A	87	CYS	N-CA-C	5.14	116.77	108.34
1	A	274	LYS	N-CA-C	5.08	116.51	111.07

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	3087	0	3127	120	0
2	A	16	0	32	2	0
3	A	245	0	0	10	0
All	All	3348	0	3159	120	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 19.

All (120) 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:53:LYS:H	1:A:105:GLN:HE22	1.06	0.99
1:A:55:GLU:HA	1:A:58:ARG:HD3	1.49	0.94
1:A:231:LEU:HD11	1:A:250:PHE:HE2	1.32	0.93
1:A:247:MET:HE3	1:A:249:ILE:HD11	1.53	0.91
1:A:192:HIS:HD2	1:A:223:GLN:HE21	1.19	0.91
1:A:364:MET:HE3	1:A:365:PRO:HD2	1.56	0.88
1:A:195:LEU:HD22	1:A:201:MET:HE1	1.58	0.86
1:A:315:ILE:HD11	1:A:329:ARG:HB3	1.59	0.83
1:A:288:ASN:H	1:A:357:ASN:HD22	1.26	0.82
1:A:144:LYS:H	1:A:167:HIS:HD2	1.26	0.82
1:A:321:MET:HE3	1:A:325:GLU:HG3	1.64	0.77
1:A:351:MET:HE2	1:A:353:ILE:H	1.52	0.75
1:A:288:ASN:H	1:A:357:ASN:ND2	1.85	0.73
1:A:355:ARG:HD2	3:A:584:HOH:O	1.90	0.72
1:A:394:GLU:O	1:A:398:LYS:HG3	1.93	0.69
1:A:231:LEU:HD11	1:A:250:PHE:CE2	2.23	0.68
1:A:234:GLU:C	1:A:237:PRO:HD2	2.20	0.67
1:A:53:LYS:H	1:A:105:GLN:NE2	1.88	0.66
1:A:139:TYR:C	1:A:141:PRO:HD3	2.21	0.66
1:A:106:GLN:HE22	1:A:223:GLN:HE22	1.44	0.65
1:A:247:MET:HE3	1:A:249:ILE:CD1	2.23	0.65
1:A:328:SER:O	1:A:332:GLN:HG3	1.97	0.65
1:A:244:GLN:HA	1:A:244:GLN:OE1	1.89	0.64
1:A:334:LYS:C	1:A:336:PHE:H	2.06	0.64
1:A:53:LYS:HG3	1:A:105:GLN:NE2	2.14	0.63
1:A:235:ILE:HB	3:A:664:HOH:O	1.97	0.63
1:A:55:GLU:H	1:A:55:GLU:CD	2.05	0.63
1:A:90:LYS:O	1:A:91:SER:HB2	1.97	0.62
1:A:53:LYS:N	1:A:105:GLN:HE22	1.89	0.62
1:A:364:MET:HE3	1:A:365:PRO:CD	2.27	0.62
1:A:192:HIS:CD2	1:A:223:GLN:HE21	2.10	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:339:ARG:HB2	3:A:651:HOH:O	2.01	0.61
1:A:354:GLU:HG2	3:A:540:HOH:O	2.01	0.61
1:A:323:GLN:HG3	3:A:657:HOH:O	2.01	0.60
1:A:364:MET:CE	1:A:365:PRO:HD2	2.30	0.60
1:A:247:MET:CE	1:A:249:ILE:HD11	2.30	0.59
1:A:366:GLU:HG3	3:A:616:HOH:O	2.02	0.59
1:A:296:SER:OG	1:A:299:ARG:HG2	2.05	0.56
1:A:402:ASP:O	1:A:406:ARG:HG2	2.06	0.56
1:A:208:ARG:HD2	3:A:631:HOH:O	2.05	0.56
1:A:321:MET:HE1	1:A:329:ARG:HD2	1.86	0.56
1:A:257:LEU:HB3	1:A:376:ALA:HB1	1.88	0.55
1:A:262:LEU:HD13	1:A:375:VAL:HG12	1.89	0.55
1:A:372:LEU:HD22	1:A:407:PHE:HE2	1.73	0.54
1:A:399:ILE:O	1:A:403:VAL:HG23	2.07	0.54
1:A:366:GLU:OE1	1:A:370:THR:HG21	2.07	0.54
1:A:345:ASN:CG	3:A:516:HOH:O	2.51	0.54
1:A:351:MET:HE2	1:A:353:ILE:HB	1.89	0.53
1:A:236:ARG:HB2	1:A:237:PRO:HD3	1.90	0.53
1:A:267:VAL:HG11	1:A:277:LYS:HE2	1.90	0.53
1:A:351:MET:CE	1:A:353:ILE:H	2.21	0.53
1:A:395:ASN:O	1:A:399:ILE:HG13	2.08	0.53
1:A:201:MET:HE3	1:A:211:VAL:HG21	1.90	0.53
1:A:290:VAL:HG22	1:A:358:ILE:HB	1.90	0.53
1:A:367:ASP:OD1	1:A:370:THR:HG23	2.09	0.53
1:A:175:ARG:HE	2:A:432:IPA:H11	1.73	0.52
1:A:232:SER:N	1:A:235:ILE:HD11	2.25	0.52
1:A:345:ASN:C	1:A:345:ASN:OD1	2.52	0.52
1:A:86:LEU:HB2	1:A:243:MET:HE1	1.91	0.52
1:A:315:ILE:HD11	1:A:329:ARG:CB	2.36	0.50
1:A:235:ILE:HD12	3:A:664:HOH:O	2.12	0.50
1:A:256:LYS:HG3	1:A:257:LEU:N	2.27	0.50
1:A:351:MET:HG2	2:A:429:IPA:H32	1.93	0.49
1:A:296:SER:OG	1:A:299:ARG:CG	2.61	0.49
1:A:199:ASP:OD1	1:A:200:LYS:N	2.45	0.49
1:A:354:GLU:OE2	1:A:380:ARG:HB2	2.13	0.49
1:A:231:LEU:CD1	1:A:250:PHE:HE2	2.15	0.49
1:A:256:LYS:HG3	1:A:257:LEU:H	1.78	0.49
1:A:154:ILE:O	1:A:158:GLU:HG3	2.12	0.49
1:A:400:LEU:O	1:A:404:GLN:HG3	2.12	0.49
1:A:234:GLU:O	1:A:237:PRO:HD2	2.11	0.48
1:A:369:ASP:HB3	3:A:562:HOH:O	2.11	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:68:PRO:HA	1:A:72:GLN:NE2	2.28	0.48
1:A:75:CYS:SG	1:A:249:ILE:HD12	2.54	0.48
1:A:133:TYR:HB3	1:A:145:VAL:HG21	1.96	0.48
1:A:53:LYS:HG3	1:A:105:GLN:HE22	1.79	0.47
1:A:269:LEU:O	1:A:392:SER:HA	2.14	0.47
1:A:334:LYS:C	1:A:336:PHE:N	2.69	0.47
1:A:96:THR:HA	1:A:99:PHE:CE2	2.50	0.47
1:A:140:MET:N	1:A:141:PRO:HD3	2.29	0.47
1:A:91:SER:HB3	1:A:93:MET:HG2	1.97	0.46
1:A:192:HIS:HD2	1:A:223:GLN:NE2	1.99	0.46
1:A:266:TYR:C	1:A:266:TYR:CD1	2.93	0.46
1:A:420:ILE:HG13	1:A:424:ILE:HD12	1.97	0.45
1:A:113:GLN:HG3	1:A:189:HIS:CD2	2.51	0.45
1:A:54:PRO:O	1:A:58:ARG:HG3	2.16	0.45
1:A:318:HIS:CE1	1:A:321:MET:HG3	2.51	0.45
1:A:257:LEU:HB3	1:A:376:ALA:CB	2.47	0.44
1:A:275:ASN:O	1:A:279:PHE:HD2	2.01	0.44
1:A:231:LEU:HA	1:A:235:ILE:HD11	1.99	0.44
1:A:364:MET:HE3	1:A:365:PRO:CG	2.47	0.44
1:A:48:ARG:HG3	1:A:57:LEU:HD21	1.99	0.43
1:A:330:TYR:CE2	1:A:334:LYS:HE3	2.53	0.43
1:A:162:LYS:HG3	1:A:163:LYS:N	2.33	0.43
1:A:236:ARG:N	1:A:237:PRO:CD	2.81	0.43
1:A:321:MET:CE	1:A:325:GLU:HG3	2.43	0.43
1:A:88:GLN:HA	1:A:228:SER:O	2.18	0.43
1:A:147:VAL:HA	1:A:170:VAL:O	2.18	0.43
1:A:254:GLU:H	1:A:254:GLU:HG3	1.53	0.43
1:A:89:ALA:O	1:A:90:LYS:C	2.62	0.43
1:A:351:MET:HE3	1:A:352:ASP:H	1.83	0.43
1:A:182:ASN:O	1:A:183:LYS:HB2	2.19	0.43
1:A:347:PHE:N	1:A:347:PHE:CD1	2.87	0.42
1:A:71:VAL:HG23	1:A:251:VAL:HG21	2.01	0.42
1:A:259:LEU:HD13	1:A:264:GLN:HE22	1.85	0.41
1:A:85:VAL:HG22	1:A:247:MET:HE2	2.01	0.41
1:A:146:ALA:HB3	1:A:166:PRO:HG3	2.02	0.41
1:A:384:LYS:HD2	1:A:425:GLU:HG3	2.02	0.41
1:A:336:PHE:CD2	1:A:355:ARG:NH1	2.89	0.41
1:A:71:VAL:HA	1:A:251:VAL:HG21	2.02	0.41
1:A:334:LYS:O	1:A:336:PHE:N	2.53	0.41
1:A:202:LEU:HB2	1:A:235:ILE:HG22	2.03	0.41
1:A:351:MET:HE2	1:A:353:ILE:CB	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:93:MET:HA	1:A:349:ARG:HH21	1.86	0.41
1:A:231:LEU:C	1:A:235:ILE:HD11	2.46	0.41
1:A:70:GLU:HA	1:A:70:GLU:OE2	2.21	0.40
1:A:399:ILE:O	1:A:402:ASP:HB3	2.21	0.40
1:A:423:TYR:CD1	1:A:424:ILE:HG13	2.56	0.40
1:A:208:ARG:HH12	1:A:234:GLU:CB	2.35	0.40
1:A:144:LYS:N	1:A:167:HIS:HD2	2.06	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	379/391 (97%)	356 (94%)	19 (5%)	4 (1%)	12 4

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	91	SER
1	A	93	MET
1	A	335	ASP
1	A	92	GLY

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	344/352 (98%)	334 (97%)	10 (3%)	37	28

All (10) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	55	GLU
1	A	163	LYS
1	A	244	GLN
1	A	245	ASP
1	A	253	ASP
1	A	254	GLU
1	A	256	LYS
1	A	257	LEU
1	A	331	GLN
1	A	335	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (15) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	72	GLN
1	A	105	GLN
1	A	113	GLN
1	A	121	HIS
1	A	128	GLN
1	A	167	HIS
1	A	182	ASN
1	A	189	HIS
1	A	192	HIS
1	A	212	GLN
1	A	223	GLN
1	A	264	GLN
1	A	288	ASN
1	A	305	GLN
1	A	357	ASN

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	IPA	A	429	-	3,3,3	0.27	0	3,3,3	1.76	1 (33%)
2	IPA	A	432	-	3,3,3	0.26	0	3,3,3	1.76	1 (33%)
2	IPA	A	430	-	3,3,3	0.23	0	3,3,3	1.75	1 (33%)
2	IPA	A	431	-	3,3,3	0.26	0	3,3,3	1.73	1 (33%)

There are no bond length outliers.

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
2	A	432	IPA	C3-C2-C1	-2.91	91.59	113.38
2	A	430	IPA	C3-C2-C1	-2.90	91.67	113.38
2	A	429	IPA	C3-C2-C1	-2.90	91.71	113.38
2	A	431	IPA	C3-C2-C1	-2.85	92.03	113.38

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

2 monomers are involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	429	IPA	1	0
2	A	432	IPA	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	381/391 (97%)	0.56	41 (10%) 12 15	18, 37, 67, 84	0

All (41) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	255	THR	4.5
1	A	234	GLU	4.0
1	A	90	LYS	3.9
1	A	235	ILE	3.9
1	A	92	GLY	3.8
1	A	348	GLY	3.8
1	A	89	ALA	3.7
1	A	403	VAL	3.4
1	A	347	PHE	3.1
1	A	61	VAL	3.1
1	A	407	PHE	3.1
1	A	315	ILE	3.1
1	A	397	ALA	2.9
1	A	65	PHE	2.9
1	A	258	THR	2.8
1	A	350	GLY	2.8
1	A	64	GLY	2.8
1	A	93	MET	2.7
1	A	142	ASN	2.7
1	A	257	LEU	2.6
1	A	335	ASP	2.6
1	A	380	ARG	2.5
1	A	354	GLU	2.5
1	A	320	GLY	2.4
1	A	405	ASP	2.3
1	A	375	VAL	2.3
1	A	162	LYS	2.3

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Mol	Chain	Res	Type	RSRZ
1	A	368	SER	2.3
1	A	372	LEU	2.3
1	A	249	ILE	2.2
1	A	46	GLY	2.2
1	A	379	GLY	2.1
1	A	67	HIS	2.1
1	A	399	ILE	2.1
1	A	319	ARG	2.1
1	A	206	ASP	2.1
1	A	252	ASP	2.0
1	A	251	VAL	2.0
1	A	233	LYS	2.0
1	A	394	GLU	2.0
1	A	232	SER	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 monosaccharides 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
2	IPA	A	430	4/4	0.78	0.17	38,40,42,44	0
2	IPA	A	431	4/4	0.86	0.11	54,54,55,56	0
2	IPA	A	432	4/4	0.86	0.15	51,51,54,54	0
2	IPA	A	429	4/4	0.91	0.09	37,38,40,43	0

6.5 Other polymers [i](#)

There are no such residues in this entry.