



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 1, 2026 – 01:27 PM UTC

PDB ID : 4PV3 / pdb_00004pv3
Title : Crystal structure of potassium-dependent plant-type L-asparaginase from *Phaseolus vulgaris* in complex with Na⁺ cations
Authors : Bejger, M.; Gilski, M.; Imiolczyk, B.; Jaskolski, M.
Deposited on : 2014-03-14
Resolution : 2.09 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

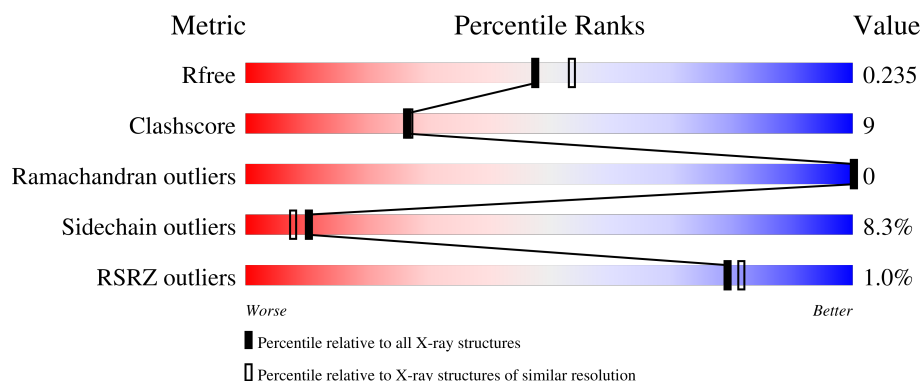
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.09 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	6658 (2.10-2.10)
Clashscore	190562	7164 (2.10-2.10)
Ramachandran outliers	187476	7099 (2.10-2.10)
Sidechain outliers	187428	7100 (2.10-2.10)
RSRZ outliers	180081	6662 (2.10-2.10)

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	197	 61% 16% 20%
1	C	197	 60% 17% 21%
2	B	131	 82% 16%
2	D	131	 76% 19% 5%

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 4530 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 L-ASPARAGINASE ALPHA SUBUNIT.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	157	Total	C	N	O	S	0	1	0
			1176	734	205	231	6			
1	C	155	Total	C	N	O	S	0	1	0
			1167	728	205	228	6			

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-1	GLY	-	expression tag	UNP V7CU13
A	0	ALA	-	expression tag	UNP V7CU13
A	17	THR	ASN	SEE REMARK 999	UNP V7CU13
C	-1	GLY	-	expression tag	UNP V7CU13
C	0	ALA	-	expression tag	UNP V7CU13
C	17	THR	ASN	SEE REMARK 999	UNP V7CU13

- Molecule 2 is a protein called L-ASPARAGINASE BETA SUBUNIT.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	131	Total	C	N	O	S	0	3	0
			949	583	167	184	15			
2	D	131	Total	C	N	O	S	0	2	0
			948	583	167	183	15			

- Molecule 3 is SODIUM ION (CCD ID: NA) (formula: Na).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	2	Total	Na	0	0
			2	2		
3	C	2	Total	Na	0	0
			2	2		

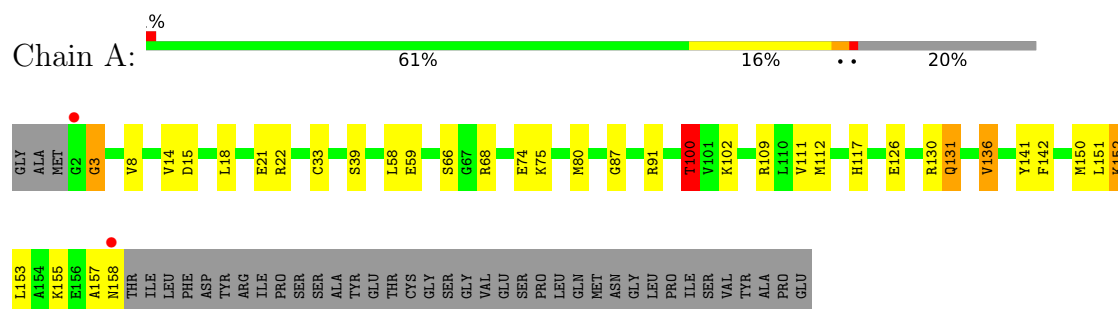
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	103	Total 103	O 103	0	0
4	B	52	Total 52	O 52	0	0
4	C	88	Total 88	O 88	0	0
4	D	43	Total 43	O 43	0	0

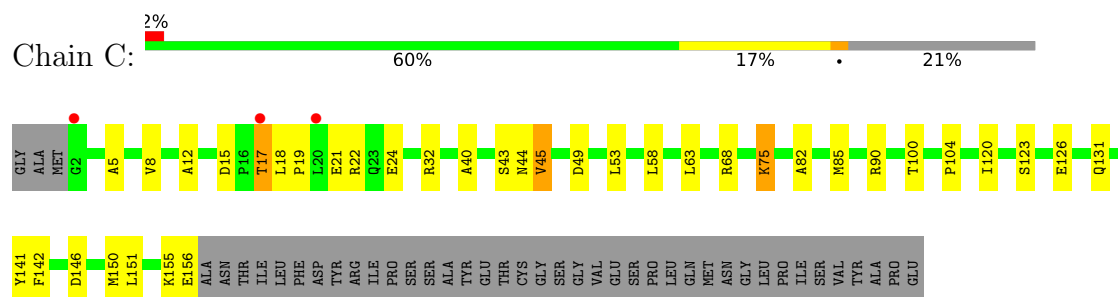
3 Residue-property plots

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.

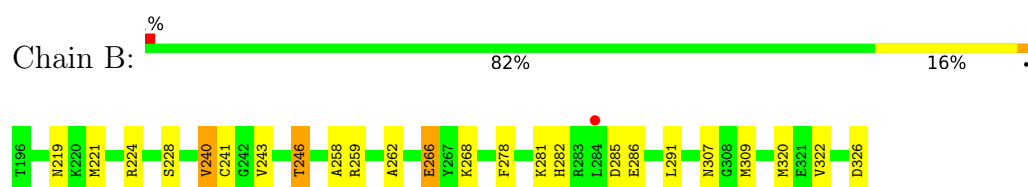
• Molecule 1: L-ASPARAGINASE ALPHA SUBUNIT



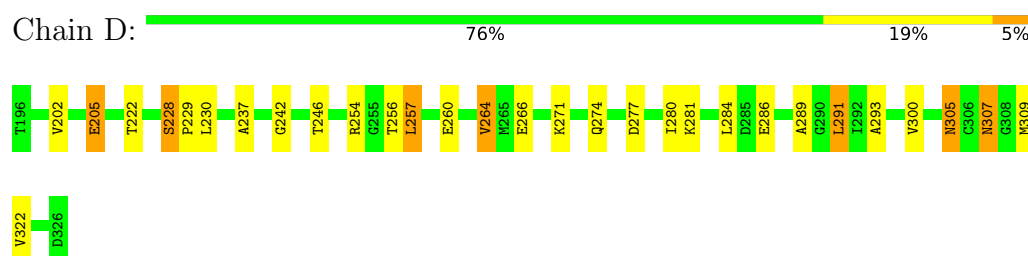
• Molecule 1: L-ASPARAGINASE ALPHA SUBUNIT



• Molecule 2: L-ASPARAGINASE BETA SUBUNIT



• Molecule 2: L-ASPARAGINASE BETA SUBUNIT



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	57.40Å 103.42Å 124.56Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	46.55 – 2.09 46.55 – 2.09	Depositor EDS
% Data completeness (in resolution range)	99.6 (46.55-2.09) 99.7 (46.55-2.09)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.32 (at 2.10Å)	Xtriage
Refinement program	REFMAC 5.6.0117	Depositor
R, R_{free}	0.178 , 0.231 0.182 , 0.235	Depositor DCC
R_{free} test set	930 reflections (2.09%)	wwPDB-VP
Wilson B-factor (Å ²)	35.0	Xtriage
Anisotropy	0.456	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 46.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	4530	wwPDB-VP
Average B, all atoms (Å ²)	44.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.69% 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: NA

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	1.46	11/1197 (0.9%)	1.20	3/1623 (0.2%)
1	C	1.25	4/1188 (0.3%)	1.13	1/1609 (0.1%)
2	B	1.37	2/974 (0.2%)	1.10	2/1309 (0.2%)
2	D	1.20	3/965 (0.3%)	1.02	2/1299 (0.2%)
All	All	1.33	20/4324 (0.5%)	1.12	8/5840 (0.1%)

All (20) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	3	GLY	N-CA	8.37	1.51	1.44
2	B	228	SER	C-O	-6.45	1.18	1.24
1	A	22	ARG	N-CA	-6.30	1.38	1.46
2	D	300	VAL	C-O	-5.99	1.18	1.24
1	A	136	VAL	C-O	-5.92	1.18	1.24
1	C	142	PHE	N-CA	5.86	1.53	1.46
1	A	39	SER	N-CA	-5.84	1.39	1.46
1	A	111	VAL	C-O	-5.74	1.17	1.24
2	D	322	VAL	C-O	-5.68	1.18	1.24
2	D	228	SER	C-O	-5.52	1.19	1.24
1	C	131	GLN	C-O	-5.50	1.17	1.24
1	A	66	SER	C-O	-5.34	1.17	1.23
1	A	91	ARG	C-O	-5.27	1.17	1.23
1	C	151	LEU	CA-C	-5.26	1.46	1.52
1	A	131	GLN	C-O	-5.23	1.18	1.24
1	A	33	CYS	C-O	-5.21	1.18	1.24
1	C	82	ALA	N-CA	-5.18	1.39	1.46
2	B	258	ALA	C-O	-5.10	1.18	1.24
1	A	100	THR	CA-C	5.04	1.59	1.52
1	A	59	GLU	CA-C	-5.02	1.46	1.52

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	240	VAL	N-CA-CB	-5.49	104.78	112.35
2	B	241	CYS	N-CA-C	5.43	115.72	108.38
1	A	87	GLY	CA-C-N	-5.36	113.38	119.28
1	A	87	GLY	C-N-CA	-5.36	113.38	119.28
2	D	256	THR	N-CA-C	-5.25	104.15	111.39
1	A	100	THR	N-CA-CB	-5.10	104.22	111.00
1	C	44	ASN	N-CA-C	5.05	118.70	112.24
2	D	291	LEU	N-CA-C	5.04	115.95	108.60

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	1176	0	1181	30	0
1	C	1167	0	1174	20	0
2	B	949	0	929	17	0
2	D	948	0	936	24	0
3	A	2	0	0	0	0
3	C	2	0	0	0	0
4	A	103	0	0	2	0
4	B	52	0	0	1	0
4	C	88	0	0	1	0
4	D	43	0	0	2	0
All	All	4530	0	4220	79	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 9.

All (79) 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:100:THR:HG21	1:A:130:ARG:HH22	0.97	1.10
1:A:100:THR:HG21	1:A:130:ARG:NH2	1.77	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:100:THR:CG2	1:A:130:ARG:HH22	1.82	0.91
2:D:266:GLU:HG2	4:D:425:HOH:O	1.77	0.84
1:A:8[A]:VAL:CG1	1:A:58:LEU:HD11	2.14	0.77
1:A:100:THR:CG2	1:A:126:GLU:OE1	2.42	0.68
2:D:305:ASN:HD22	2:D:305:ASN:H	1.42	0.67
2:D:271:LYS:H	2:D:274:GLN:HE21	1.41	0.67
2:D:289:ALA:H	2:D:305:ASN:HD21	1.42	0.67
1:C:32:ARG:NH2	4:C:326:HOH:O	2.27	0.64
1:A:152:LYS:HA	1:A:152:LYS:NZ	2.13	0.63
1:A:8[A]:VAL:HG13	1:A:58:LEU:HD11	1.82	0.61
1:A:68:ARG:HG3	1:A:142:PHE:HA	1.83	0.60
1:C:40:ALA:O	1:C:45:VAL:HG13	2.01	0.60
1:A:150:MET:HA	1:A:150:MET:HE2	1.84	0.59
1:C:75:LYS:HE3	2:D:222:THR:HB	1.85	0.59
1:A:100:THR:HG23	1:A:136:VAL:HB	1.85	0.58
2:B:281:LYS:NZ	2:B:282:HIS:NE2	2.50	0.57
1:A:155:LYS:HZ3	2:B:219:ASN:HD21	1.54	0.56
1:A:74:GLU:CD	2:B:221:MET:HG2	2.30	0.55
1:A:155:LYS:NZ	2:B:219:ASN:HD21	2.04	0.55
1:C:15:ASP:OD2	1:C:17:THR:HG22	2.07	0.55
1:C:5:ALA:HB3	2:D:202:VAL:HG12	1.90	0.53
1:C:68[B]:ARG:HD2	1:C:141:TYR:CE2	2.43	0.53
1:C:8:VAL:CG1	1:C:58:LEU:HD11	2.39	0.52
2:D:291:LEU:C	2:D:291:LEU:HD12	2.35	0.52
1:A:117:HIS:ND1	4:A:393:HOH:O	2.34	0.52
1:C:150:MET:HA	1:C:150:MET:HE3	1.92	0.51
1:A:14:VAL:O	2:B:307:ASN:OD1	2.29	0.51
1:C:12:ALA:HB2	2:D:246:THR:HG23	1.93	0.51
1:C:68[B]:ARG:HD2	1:C:141:TYR:CZ	2.46	0.50
1:A:8[A]:VAL:HG11	1:A:58:LEU:HD11	1.93	0.50
2:B:281:LYS:HZ2	2:B:282:HIS:CE1	2.30	0.50
1:A:157:ALA:O	1:A:158:ASN:ND2	2.44	0.50
1:A:68:ARG:HD2	1:A:141:TYR:O	2.11	0.50
2:D:305:ASN:HD22	2:D:305:ASN:N	2.04	0.50
1:A:100:THR:HG21	1:A:126:GLU:OE1	2.13	0.49
2:D:271:LYS:H	2:D:274:GLN:NE2	2.07	0.49
2:B:246:THR:CG2	2:B:309[B]:MET:HE3	2.42	0.49
1:A:100:THR:HB	1:A:126:GLU:OE1	2.13	0.48
2:B:246:THR:HG21	2:B:309[B]:MET:HE3	1.95	0.48
1:C:68[B]:ARG:NH1	1:C:68[B]:ARG:HB3	2.28	0.48
2:D:309:MET:HE3	2:D:311:ARG:HD2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:289:ALA:H	2:D:305:ASN:ND2	2.09	0.47
2:D:242:GLY:O	2:D:293:ALA:HA	2.15	0.47
2:B:224:ARG:HD2	1:C:120:ILE:HG23	1.97	0.47
1:A:68:ARG:CD	1:A:141:TYR:O	2.62	0.47
1:A:15:ASP:HB3	4:A:325:HOH:O	2.14	0.46
1:A:3:GLY:HA2	4:B:435:HOH:O	2.16	0.46
1:C:85:MET:HE2	1:C:90:ARG:HG2	1.97	0.46
1:A:152:LYS:HA	1:A:152:LYS:HZ3	1.80	0.45
2:B:268:LYS:HE2	2:B:278:PHE:CE1	2.50	0.45
2:D:307:ASN:C	2:D:307:ASN:HD22	2.24	0.45
2:B:281:LYS:NZ	2:B:282:HIS:CE1	2.84	0.45
2:B:259:ARG:HH21	2:D:260:GLU:CD	2.25	0.45
1:A:80:MET:HE1	1:A:142:PHE:CZ	2.52	0.44
2:D:260:GLU:O	2:D:264:VAL:HG13	2.18	0.44
1:A:151:LEU:HD11	2:B:219:ASN:HD22	1.82	0.44
1:C:45:VAL:HG23	1:C:49:ASP:HB2	1.99	0.44
2:B:291:LEU:C	2:B:291:LEU:HD12	2.43	0.44
1:C:100:THR:OG1	1:C:126:GLU:OE1	2.28	0.43
2:D:257:LEU:CD2	2:D:284:LEU:HD21	2.47	0.43
2:D:289:ALA:N	2:D:305:ASN:HD21	2.13	0.43
1:A:152:LYS:HA	1:A:152:LYS:HZ2	1.83	0.43
1:A:131:GLN:HG3	4:D:443:HOH:O	2.19	0.43
1:A:74:GLU:OE2	2:B:221:MET:HG2	2.18	0.43
2:D:205:GLU:H	2:D:205:GLU:CD	2.27	0.42
2:D:305:ASN:H	2:D:305:ASN:ND2	2.14	0.42
1:C:18:LEU:HA	1:C:19:PRO:HD3	1.93	0.42
2:D:280:ILE:HD13	2:D:280:ILE:HA	1.87	0.42
1:C:75:LYS:HD3	1:C:75:LYS:H	1.85	0.42
1:A:109:ARG:HD2	1:A:112:MET:HE2	2.02	0.41
2:B:243:VAL:HG13	2:B:291:LEU:HD13	2.03	0.41
1:C:19:PRO:HD2	1:C:22:ARG:HG3	2.03	0.41
2:B:262:ALA:O	2:B:266:GLU:HB2	2.21	0.41
1:C:85:MET:HE2	2:D:237:ALA:O	2.21	0.41
2:D:228:SER:N	2:D:229:PRO:CD	2.84	0.41
1:C:155:LYS:O	1:C:156:GLU:O	2.40	0.40
2:D:205:GLU:CD	2:D:205:GLU:N	2.80	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	156/197 (79%)	150 (96%)	6 (4%)	0	100	100
1	C	154/197 (78%)	149 (97%)	5 (3%)	0	100	100
2	B	132/131 (101%)	127 (96%)	5 (4%)	0	100	100
2	D	131/131 (100%)	126 (96%)	5 (4%)	0	100	100
All	All	573/656 (87%)	552 (96%)	21 (4%)	0	100	100

There are no Ramachandran outliers to report.

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	128/160 (80%)	121 (94%)	7 (6%)	19	18
1	C	127/160 (79%)	116 (91%)	11 (9%)	9	7
2	B	99/96 (103%)	91 (92%)	8 (8%)	11	8
2	D	98/96 (102%)	87 (89%)	11 (11%)	6	3
All	All	452/512 (88%)	415 (92%)	37 (8%)	10	8

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

Mol	Chain	Res	Type
1	A	18	LEU
1	A	21	GLU

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Mol	Chain	Res	Type
1	A	75	LYS
1	A	100	THR
1	A	102	LYS
1	A	152	LYS
1	A	153	LEU
2	B	240	VAL
2	B	246	THR
2	B	266	GLU
2	B	285	ASP
2	B	286	GLU
2	B	320	MET
2	B	322	VAL
2	B	326	ASP
1	C	17	THR
1	C	21	GLU
1	C	24	GLU
1	C	43	SER
1	C	45	VAL
1	C	53	LEU
1	C	63	LEU
1	C	75	LYS
1	C	104	PRO
1	C	123	SER
1	C	146	ASP
2	D	205	GLU
2	D	230	LEU
2	D	254	ARG
2	D	257	LEU
2	D	264	VAL
2	D	277	ASP
2	D	281	LYS
2	D	286	GLU
2	D	305	ASN
2	D	307	ASN
2	D	320	MET

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (9) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	117	HIS
1	A	132	GLN
1	A	158	ASN

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Mol	Chain	Res	Type
2	B	219	ASN
2	B	274	GLN
1	C	117	HIS
2	D	274	GLN
2	D	305	ASN
2	D	307	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 [i](#)

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 [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	157/197 (79%)	-0.18	2 (1%) 75 77	19, 37, 64, 109	3 (1%)
1	C	155/197 (78%)	-0.09	3 (1%) 66 69	22, 39, 67, 87	1 (0%)
2	B	131/131 (100%)	-0.13	1 (0%) 82 84	23, 38, 67, 95	5 (3%)
2	D	131/131 (100%)	0.08	0 100 100	27, 47, 77, 103	5 (3%)
All	All	574/656 (87%)	-0.08	6 (1%) 79 81	19, 40, 70, 109	14 (2%)

All (6) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	2	GLY	2.9
2	B	284	LEU	2.9
1	C	20	LEU	2.4
1	C	2	GLY	2.3
1	A	158	ASN	2.2
1	C	17	THR	2.2

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	NA	C	202	1/1	0.93	0.06	43,43,43,43	0
3	NA	A	202	1/1	0.96	0.04	44,44,44,44	0
3	NA	C	201	1/1	0.97	0.06	40,40,40,40	0
3	NA	A	201	1/1	0.97	0.06	40,40,40,40	0

6.5 Other polymers [i](#)

There are no such residues in this entry.