



wwPDB X-ray Structure Validation Summary Report ⓘ

May 29, 2020 – 07:56 am BST

PDB ID : 5N5V
Title : Structure of p-boronophenylalanyl tRNA synthetase - apo form
Authors : Schiefner, A.; Skerra, A.
Deposited on : 2017-02-14
Resolution : 2.30 Å(reported)

This is a wwPDB X-ray Structure Validation Summary 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 following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Xtriage (Phenix) : 1.13
EDS : 2.11
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.11

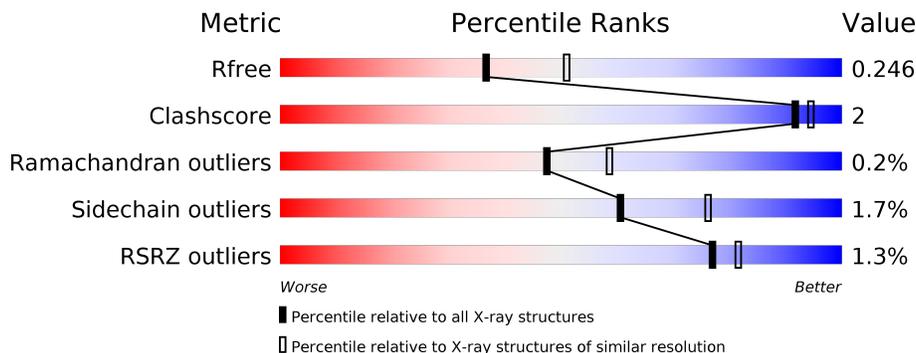
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.30 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.



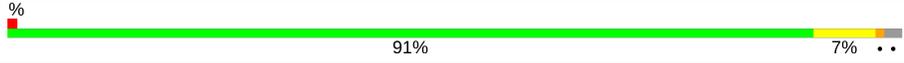
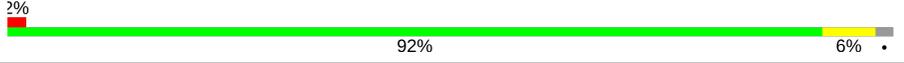
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	5042 (2.30-2.30)
Clashscore	141614	5643 (2.30-2.30)
Ramachandran outliers	138981	5575 (2.30-2.30)
Sidechain outliers	138945	5575 (2.30-2.30)
RSRZ outliers	127900	4938 (2.30-2.30)

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 on 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	314	2% 90% 7%
1	B	314	% 88% 10%
1	C	314	89% 8%
1	D	314	2% 91% 7%
1	E	314	% 90% 8%
1	F	314	% 91% 7%

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Mol	Chain	Length	Quality of chain
1	G	314	 <p>91% 7% ••</p>
1	H	314	 <p>92% 6% •</p>

2 Entry composition [i](#)

There are 3 unique types of molecules in this entry. The entry contains 19935 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 Tyrosine-tRNA ligase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	309	2473	1579	420	461	13	0	0	0
1	B	307	2458	1570	416	459	13	0	0	0
1	C	306	2452	1567	415	457	13	0	0	0
1	D	309	2473	1579	420	461	13	0	0	0
1	E	309	2473	1579	420	461	13	0	0	0
1	F	309	2473	1579	420	461	13	0	0	0
1	G	309	2473	1579	420	461	13	0	0	0
1	H	307	2458	1570	416	459	13	0	0	0

There are 120 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	6	LEU	MET	engineered mutation	UNP Q57834
A	32	SER	TYR	engineered mutation	UNP Q57834
A	65	ALA	LEU	engineered mutation	UNP Q57834
A	70	MET	HIS	engineered mutation	UNP Q57834
A	158	SER	ASP	engineered mutation	UNP Q57834
A	162	GLU	LEU	engineered mutation	UNP Q57834
A	286	ARG	ASP	engineered mutation	UNP Q57834
A	307	SER	-	expression tag	UNP Q57834
A	308	ALA	-	expression tag	UNP Q57834
A	309	HIS	-	expression tag	UNP Q57834
A	310	HIS	-	expression tag	UNP Q57834
A	311	HIS	-	expression tag	UNP Q57834
A	312	HIS	-	expression tag	UNP Q57834

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Chain	Residue	Modelled	Actual	Comment	Reference
A	313	HIS	-	expression tag	UNP Q57834
A	314	HIS	-	expression tag	UNP Q57834
B	6	LEU	MET	engineered mutation	UNP Q57834
B	32	SER	TYR	engineered mutation	UNP Q57834
B	65	ALA	LEU	engineered mutation	UNP Q57834
B	70	MET	HIS	engineered mutation	UNP Q57834
B	158	SER	ASP	engineered mutation	UNP Q57834
B	162	GLU	LEU	engineered mutation	UNP Q57834
B	286	ARG	ASP	engineered mutation	UNP Q57834
B	307	SER	-	expression tag	UNP Q57834
B	308	ALA	-	expression tag	UNP Q57834
B	309	HIS	-	expression tag	UNP Q57834
B	310	HIS	-	expression tag	UNP Q57834
B	311	HIS	-	expression tag	UNP Q57834
B	312	HIS	-	expression tag	UNP Q57834
B	313	HIS	-	expression tag	UNP Q57834
B	314	HIS	-	expression tag	UNP Q57834
C	6	LEU	MET	engineered mutation	UNP Q57834
C	32	SER	TYR	engineered mutation	UNP Q57834
C	65	ALA	LEU	engineered mutation	UNP Q57834
C	70	MET	HIS	engineered mutation	UNP Q57834
C	158	SER	ASP	engineered mutation	UNP Q57834
C	162	GLU	LEU	engineered mutation	UNP Q57834
C	286	ARG	ASP	engineered mutation	UNP Q57834
C	307	SER	-	expression tag	UNP Q57834
C	308	ALA	-	expression tag	UNP Q57834
C	309	HIS	-	expression tag	UNP Q57834
C	310	HIS	-	expression tag	UNP Q57834
C	311	HIS	-	expression tag	UNP Q57834
C	312	HIS	-	expression tag	UNP Q57834
C	313	HIS	-	expression tag	UNP Q57834
C	314	HIS	-	expression tag	UNP Q57834
D	6	LEU	MET	engineered mutation	UNP Q57834
D	32	SER	TYR	engineered mutation	UNP Q57834
D	65	ALA	LEU	engineered mutation	UNP Q57834
D	70	MET	HIS	engineered mutation	UNP Q57834
D	158	SER	ASP	engineered mutation	UNP Q57834
D	162	GLU	LEU	engineered mutation	UNP Q57834
D	286	ARG	ASP	engineered mutation	UNP Q57834
D	307	SER	-	expression tag	UNP Q57834
D	308	ALA	-	expression tag	UNP Q57834
D	309	HIS	-	expression tag	UNP Q57834

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Chain	Residue	Modelled	Actual	Comment	Reference
D	310	HIS	-	expression tag	UNP Q57834
D	311	HIS	-	expression tag	UNP Q57834
D	312	HIS	-	expression tag	UNP Q57834
D	313	HIS	-	expression tag	UNP Q57834
D	314	HIS	-	expression tag	UNP Q57834
E	6	LEU	MET	engineered mutation	UNP Q57834
E	32	SER	TYR	engineered mutation	UNP Q57834
E	65	ALA	LEU	engineered mutation	UNP Q57834
E	70	MET	HIS	engineered mutation	UNP Q57834
E	158	SER	ASP	engineered mutation	UNP Q57834
E	162	GLU	LEU	engineered mutation	UNP Q57834
E	286	ARG	ASP	engineered mutation	UNP Q57834
E	307	SER	-	expression tag	UNP Q57834
E	308	ALA	-	expression tag	UNP Q57834
E	309	HIS	-	expression tag	UNP Q57834
E	310	HIS	-	expression tag	UNP Q57834
E	311	HIS	-	expression tag	UNP Q57834
E	312	HIS	-	expression tag	UNP Q57834
E	313	HIS	-	expression tag	UNP Q57834
E	314	HIS	-	expression tag	UNP Q57834
F	6	LEU	MET	engineered mutation	UNP Q57834
F	32	SER	TYR	engineered mutation	UNP Q57834
F	65	ALA	LEU	engineered mutation	UNP Q57834
F	70	MET	HIS	engineered mutation	UNP Q57834
F	158	SER	ASP	engineered mutation	UNP Q57834
F	162	GLU	LEU	engineered mutation	UNP Q57834
F	286	ARG	ASP	engineered mutation	UNP Q57834
F	307	SER	-	expression tag	UNP Q57834
F	308	ALA	-	expression tag	UNP Q57834
F	309	HIS	-	expression tag	UNP Q57834
F	310	HIS	-	expression tag	UNP Q57834
F	311	HIS	-	expression tag	UNP Q57834
F	312	HIS	-	expression tag	UNP Q57834
F	313	HIS	-	expression tag	UNP Q57834
F	314	HIS	-	expression tag	UNP Q57834
G	6	LEU	MET	engineered mutation	UNP Q57834
G	32	SER	TYR	engineered mutation	UNP Q57834
G	65	ALA	LEU	engineered mutation	UNP Q57834
G	70	MET	HIS	engineered mutation	UNP Q57834
G	158	SER	ASP	engineered mutation	UNP Q57834
G	162	GLU	LEU	engineered mutation	UNP Q57834
G	286	ARG	ASP	engineered mutation	UNP Q57834

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Chain	Residue	Modelled	Actual	Comment	Reference
G	307	SER	-	expression tag	UNP Q57834
G	308	ALA	-	expression tag	UNP Q57834
G	309	HIS	-	expression tag	UNP Q57834
G	310	HIS	-	expression tag	UNP Q57834
G	311	HIS	-	expression tag	UNP Q57834
G	312	HIS	-	expression tag	UNP Q57834
G	313	HIS	-	expression tag	UNP Q57834
G	314	HIS	-	expression tag	UNP Q57834
H	6	LEU	MET	engineered mutation	UNP Q57834
H	32	SER	TYR	engineered mutation	UNP Q57834
H	65	ALA	LEU	engineered mutation	UNP Q57834
H	70	MET	HIS	engineered mutation	UNP Q57834
H	158	SER	ASP	engineered mutation	UNP Q57834
H	162	GLU	LEU	engineered mutation	UNP Q57834
H	286	ARG	ASP	engineered mutation	UNP Q57834
H	307	SER	-	expression tag	UNP Q57834
H	308	ALA	-	expression tag	UNP Q57834
H	309	HIS	-	expression tag	UNP Q57834
H	310	HIS	-	expression tag	UNP Q57834
H	311	HIS	-	expression tag	UNP Q57834
H	312	HIS	-	expression tag	UNP Q57834
H	313	HIS	-	expression tag	UNP Q57834
H	314	HIS	-	expression tag	UNP Q57834

- Molecule 2 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	G	1	Total Cl 1 1	0	0
2	B	1	Total Cl 1 1	0	0
2	A	1	Total Cl 1 1	0	0
2	D	1	Total Cl 1 1	0	0
2	E	1	Total Cl 1 1	0	0

- Molecule 3 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	35	Total O 35 35	0	0
3	B	29	Total O 29 29	0	0
3	C	15	Total O 15 15	0	0
3	D	23	Total O 23 23	0	0
3	E	13	Total O 13 13	0	0
3	F	18	Total O 18 18	0	0
3	G	30	Total O 30 30	0	0
3	H	34	Total O 34 34	0	0

4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	53.00Å 94.01Å 286.57Å 90.00° 90.02° 90.00°	Depositor
Resolution (Å)	34.91 – 2.30 34.91 – 2.30	Depositor EDS
% Data completeness (in resolution range)	99.9 (34.91-2.30) 99.9 (34.91-2.30)	Depositor EDS
R_{merge}	0.20	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.76 (at 2.29Å)	Xtriage
Refinement program	REFMAC 5.8.0155	Depositor
R, R_{free}	0.212 , 0.244 0.214 , 0.246	Depositor DCC
R_{free} test set	6047 reflections (4.84%)	wwPDB-VP
Wilson B-factor (Å ²)	27.5	Xtriage
Anisotropy	0.582	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 4.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.40$, $\langle L^2 \rangle = 0.22$	Xtriage
Estimated twinning fraction	0.468 for h,-k,-l	Xtriage
Reported twinning fraction	0.505 for H, K, L 0.495 for h,-k,-l	Depositor
Outliers	0 of 124992 reflections	Xtriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	19935	wwPDB-VP
Average B, all atoms (Å ²)	33.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.86% 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 i

5.1 Standard geometry i

Bond lengths and bond angles in the following residue types are not validated in this section:
CL

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	0.70	0/2513	0.87	6/3372 (0.2%)
1	B	0.68	0/2497	0.93	11/3350 (0.3%)
1	C	0.70	0/2491	0.88	9/3342 (0.3%)
1	D	0.65	0/2513	0.83	6/3372 (0.2%)
1	E	0.68	0/2513	0.87	7/3372 (0.2%)
1	F	0.68	0/2513	0.90	8/3372 (0.2%)
1	G	0.69	0/2513	0.89	8/3372 (0.2%)
1	H	0.68	1/2497 (0.0%)	0.86	8/3350 (0.2%)
All	All	0.68	1/20050 (0.0%)	0.88	63/26902 (0.2%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	B	0	1

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	148	GLU	CD-OE1	-5.20	1.20	1.25

The worst 5 of 63 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	G	6	LEU	CB-CG-CD2	10.11	128.19	111.00
1	D	131	ARG	NE-CZ-NH2	-8.35	116.12	120.30
1	B	265	LEU	CA-CB-CG	8.03	133.76	115.30
1	F	286	ARG	NE-CZ-NH2	7.99	124.29	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
1	C	304	LYS	CD-CE-NZ	7.63	129.24	111.70

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	B	306	LEU	Peptide

5.2 Too-close contacts [\(i\)](#)

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	2473	0	2553	12	2
1	B	2458	0	2541	13	2
1	C	2452	0	2536	10	0
1	D	2473	0	2553	10	0
1	E	2473	0	2553	12	0
1	F	2473	0	2553	8	0
1	G	2473	0	2553	9	0
1	H	2458	0	2541	6	0
2	A	1	0	0	1	0
2	B	1	0	0	0	0
2	D	1	0	0	1	0
2	E	1	0	0	1	0
2	G	1	0	0	0	0
3	A	35	0	0	0	0
3	B	29	0	0	0	0
3	C	15	0	0	0	0
3	D	23	0	0	0	0
3	E	13	0	0	0	0
3	F	18	0	0	0	0
3	G	30	0	0	3	0
3	H	34	0	0	0	0
All	All	19935	0	20383	65	2

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 2.

The worst 5 of 65 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:C:127:LEU:HD12	1:D:144:PRO:HB2	1.66	0.78
1:B:70:MET:HE1	1:B:155:GLN:OE1	1.97	0.64
1:C:144:PRO:HB2	1:D:127:LEU:HD12	1.81	0.63
1:E:83:ARG:NH2	1:E:87:ASP:OD1	2.33	0.61
1:E:83:ARG:HD3	1:E:104:TYR:CE1	2.34	0.61

All (2) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:300:GLU:OE1	1:B:230:TYR:OH[2_657]	2.03	0.17
1:A:300:GLU:OE2	1:B:230:TYR:OH[2_657]	2.18	0.02

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	307/314 (98%)	303 (99%)	3 (1%)	1 (0%)	41	50
1	B	305/314 (97%)	302 (99%)	3 (1%)	0	100	100
1	C	304/314 (97%)	300 (99%)	3 (1%)	1 (0%)	41	50
1	D	307/314 (98%)	305 (99%)	2 (1%)	0	100	100
1	E	307/314 (98%)	302 (98%)	4 (1%)	1 (0%)	41	50
1	F	307/314 (98%)	305 (99%)	2 (1%)	0	100	100
1	G	307/314 (98%)	303 (99%)	3 (1%)	1 (0%)	41	50
1	H	305/314 (97%)	303 (99%)	2 (1%)	0	100	100
All	All	2449/2512 (98%)	2423 (99%)	22 (1%)	4 (0%)	47	58

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	C	207	SER
1	E	207	SER
1	G	207	SER
1	A	207	SER

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	269/274 (98%)	264 (98%)	5 (2%)	57 73
1	B	268/274 (98%)	262 (98%)	6 (2%)	52 69
1	C	267/274 (97%)	263 (98%)	4 (2%)	65 79
1	D	269/274 (98%)	265 (98%)	4 (2%)	65 79
1	E	269/274 (98%)	265 (98%)	4 (2%)	65 79
1	F	269/274 (98%)	265 (98%)	4 (2%)	65 79
1	G	269/274 (98%)	263 (98%)	6 (2%)	52 69
1	H	268/274 (98%)	265 (99%)	3 (1%)	73 86
All	All	2148/2192 (98%)	2112 (98%)	36 (2%)	60 76

5 of 36 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	D	140	GLU
1	E	83	ARG
1	H	29	LYS
1	D	304	LYS
1	E	228	LYS

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

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 5 ligands modelled in this entry, 5 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	309/314 (98%)	-0.27	6 (1%) 66 73	18, 30, 58, 92	0
1	B	307/314 (97%)	-0.34	2 (0%) 87 91	20, 30, 49, 68	0
1	C	306/314 (97%)	-0.28	0 100 100	17, 32, 56, 86	0
1	D	309/314 (98%)	-0.31	7 (2%) 60 67	18, 31, 57, 88	0
1	E	309/314 (98%)	-0.30	3 (0%) 82 86	17, 32, 55, 72	0
1	F	309/314 (98%)	-0.25	3 (0%) 82 86	18, 31, 58, 89	0
1	G	309/314 (98%)	-0.35	4 (1%) 77 81	20, 30, 48, 60	0
1	H	307/314 (97%)	-0.30	6 (1%) 65 71	17, 28, 58, 74	0
All	All	2465/2512 (98%)	-0.30	31 (1%) 77 81	17, 31, 55, 92	0

The worst 5 of 31 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	F	208	SER	8.7
1	F	1	MET	7.9
1	H	79	LEU	5.5
1	A	1	MET	4.2
1	H	1	MET	4.1

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. 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	CL	E	401	1/1	0.98	0.10	33,33,33,33	0
2	CL	D	401	1/1	0.99	0.09	29,29,29,29	0
2	CL	G	401	1/1	0.99	0.06	27,27,27,27	0
2	CL	A	401	1/1	0.99	0.05	35,35,35,35	0
2	CL	B	401	1/1	1.00	0.12	15,15,15,15	0

6.5 Other polymers [i](#)

There are no such residues in this entry.