Full wwPDB X-ray Structure Validation Report (i)

Sep 11, 2023 – 06:29 AM EDT

PDB ID	:	4LVN
Title	:	Crystal structure of PfSUB1-prodomain-NIMP.M7 Fab complex
Authors	:	Withers-Martinez, C.; Blackman, M.J.
Deposited on	:	2013-07-26
Resolution	:	2.25 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 (i) 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 (1)) were used in the production of this report:

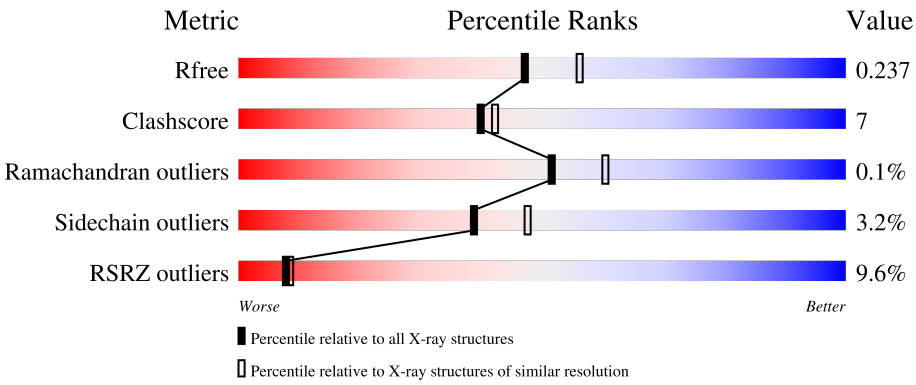
MolProbity	:	4.02b-467
Xtriage (Phenix)	:	1.13
EDS	:	2.35.1
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.35.1

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 2.25 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	1377 (2.26-2.26)
Clashscore	141614	1487 (2.26-2.26)
Ramachandran outliers	138981	1449 (2.26-2.26)
Sidechain outliers	138945	1450 (2.26-2.26)
RSRZ outliers	127900	1356 (2.26-2.26)

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 <=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	344	8% 80% 17% • •
2	B	212	7% 79% 16% • •
3	C	220	8% 82% 15% • •
4	P	93	24% 71% 15% • 13%

2 Entry composition (i)

There are 7 unique types of molecules in this entry. The entry contains 6622 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 Subtilisin-like serine protease.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	336	2632	1656	455	507	14	0	1	0

- Molecule 2 is a protein called NIMP.M7 Fab light chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	B	207	1524	947	257	312	8	0	0	0

- Molecule 3 is a protein called NIMP.M7 Fab heavy chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
3	C	216	1608	1026	258	318	6	0	0	0

- Molecule 4 is a protein called Subtilisin-like serine protease.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
4	P	81	639	404	99	135	1	0	0	0

- Molecule 5 is NICKEL (II) ION (three-letter code: NI) (formula: Ni).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	Ni		
5	A	1	1	1	0	0
5	P	1	1	1	0	0

- Molecule 6 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	Ca		
6	A	3	3	3	0	0

- Molecule 7 is water.

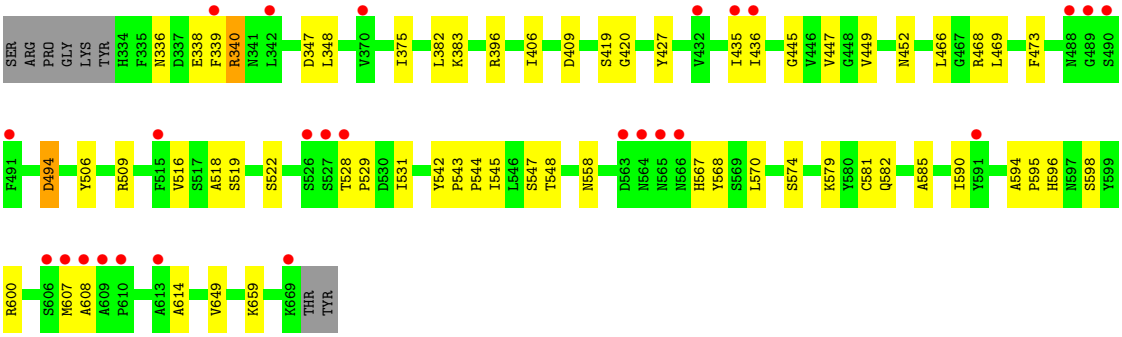
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	O		
7	A	92	92	92	0	0
			Total	O		
7	B	67	67	67	0	0
			Total	O		
7	C	49	49	49	0	0
			Total	O		
7	P	6	6	6	0	0

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.

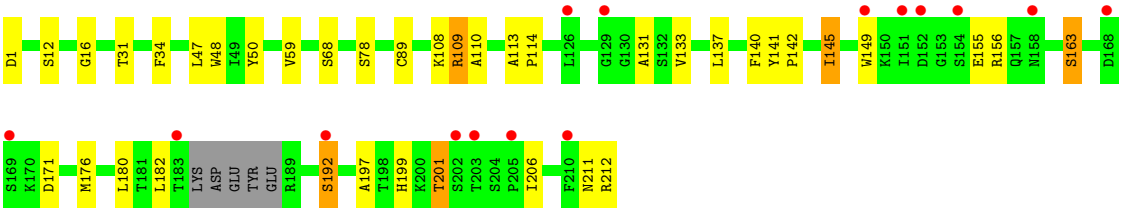
• Molecule 1: Subtilisin-like serine protease

Chain A:



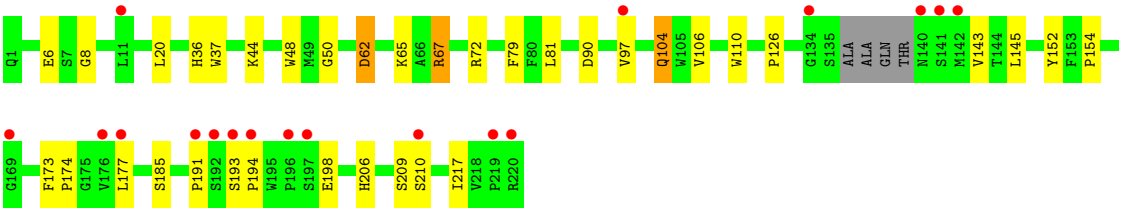
• Molecule 2: NIMP.M7 Fab light chain

Chain B:



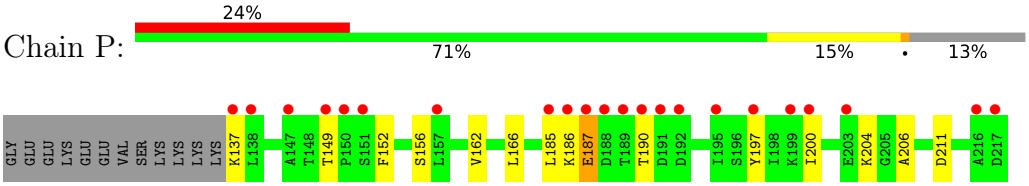
• Molecule 3: NIMP.M7 Fab heavy chain

Chain C:



• Molecule 4: Subtilisin-like serine protease

Chain P:


24%
71%
15%
13%
GLY GLU GLU LYS GLU GLU VAL SER LYS LYS LYS LYS
K137 L138 A147 T148 T149 P150 S151 F152 S156 L157 V162 L166 L185 K186 E187 D188 T189 T190 D191 D192 I195 S196 Y197 I198 K199 I200 E203 K204 G205 A206 D211 A216 D217

4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α, β, γ	73.50Å 74.79Å 78.85Å 90.00° 103.33° 90.00°	Depositor
Resolution (Å)	29.88 – 2.25 29.88 – 2.25	Depositor EDS
% Data completeness (in resolution range)	98.2 (29.88-2.25) 98.2 (29.88-2.25)	Depositor EDS
R_{merge}	0.11	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	2.07 (at 2.24Å)	Xtriage
Refinement program	PHENIX (phenix.refine: 1.8.2_1309)	Depositor
R, R_{free}	0.195 , 0.237 0.195 , 0.237	Depositor DCC
R_{free} test set	1951 reflections (5.01%)	wwPDB-VP
Wilson B-factor (Å^2)	39.1	Xtriage
Anisotropy	0.310	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.32 , 40.0	EDS
L-test for twinning[2]	$< \|L\| > = 0.47$, $< L^2 > = 0.30$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.94	EDS
Total number of atoms	6622	wwPDB-VP
Average B, all atoms (Å^2)	50.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.56% of the height of the origin peak. No significant pseudotranslation is detected.*

[1]Intensities estimated from amplitudes.

[2]Theoretical values of $< |L| >$, $< L^2 >$ 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: NI, CA

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	0.27	0/2689	0.47	0/3642
2	B	0.27	0/1562	0.45	0/2131
3	C	0.27	0/1656	0.50	0/2279
4	P	0.25	0/645	0.47	0/868
All	All	0.27	0/6552	0.47	0/8920

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 (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	2632	0	2570	36	0
2	B	1524	0	1398	27	0
3	C	1608	0	1501	22	0
4	P	639	0	648	10	0
5	A	1	0	0	0	0
5	P	1	0	0	0	0
6	A	3	0	0	0	0
7	A	92	0	0	4	0
7	B	67	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
7	C	49	0	0	0	0
7	P	6	0	0	0	0
All	All	6622	0	6117	91	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 (91) 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)
3:C:62:ASP:HA	3:C:65:LYS:HG2	1.70	0.72
3:C:206:HIS:ND1	3:C:209:SER:OG	2.26	0.69
2:B:145:ILE:HD12	2:B:199:HIS:HB2	1.76	0.67
3:C:145:LEU:HD22	3:C:217:ILE:HG21	1.76	0.67
2:B:156:ARG:HH12	2:B:182:LEU:HB3	1.61	0.64
1:A:558:ASN:HB3	1:A:574:SER:HB2	1.82	0.62
2:B:137:LEU:HD13	2:B:176:MET:HE3	1.81	0.61
1:A:468:ARG:HD3	4:P:137:LYS:HE2	1.83	0.60
1:A:494:ASP:N	1:A:494:ASP:OD1	2.35	0.60
1:A:581[B]:CYS:HB3	1:A:649:VAL:HG12	1.83	0.59
3:C:36:HIS:HB2	3:C:97:VAL:HG12	1.84	0.59
2:B:149:TRP:O	2:B:155:GLU:HA	2.02	0.58
1:A:419:SER:HB2	1:A:420:GLY:HA3	1.85	0.58
2:B:34:PHE:CZ	2:B:89:CYS:HB2	2.40	0.57
1:A:547:SER:HB2	1:A:582:GLN:HE22	1.69	0.57
2:B:163:SER:HB3	3:C:173:PHE:HB3	1.87	0.56
1:A:435:ILE:HD11	1:A:607:MET:HG3	1.89	0.54
1:A:339:PHE:N	7:A:875:HOH:O	2.38	0.54
2:B:12:SER:HB3	2:B:108:LYS:HG3	1.91	0.53
1:A:436:ILE:HG23	1:A:614:ALA:HB2	1.92	0.52
1:A:340:ARG:HH22	1:A:347:ASP:N	2.08	0.52
2:B:131:ALA:HB3	2:B:182:LEU:HD12	1.91	0.52
2:B:109:ARG:HH21	2:B:171:ASP:HB2	1.75	0.51
2:B:133:VAL:HG13	2:B:180:LEU:HB3	1.92	0.51
2:B:156:ARG:NH1	2:B:182:LEU:HB3	2.25	0.51
3:C:194:PRO:O	3:C:198:GLU:N	2.36	0.51
3:C:72:ARG:HA	3:C:79:PHE:HA	1.91	0.50
3:C:126:PRO:HB3	3:C:152:TYR:HB3	1.94	0.50
2:B:156:ARG:HD3	2:B:180:LEU:HD11	1.94	0.49
3:C:104:GLN:HG2	3:C:106:VAL:H	1.77	0.49
1:A:594:ALA:HB2	1:A:600:ARG:HG2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:469:LEU:HG	1:A:473:PHE:HE1	1.79	0.47
2:B:47:LEU:HD21	2:B:50:TYR:HB3	1.96	0.47
3:C:104:GLN:CG	3:C:106:VAL:HG12	2.44	0.47
4:P:186:LYS:HE3	4:P:186:LYS:HB2	1.56	0.47
4:P:200:ILE:O	4:P:204:LYS:HG2	2.15	0.47
1:A:506:TYR:HA	1:A:509:ARG:HG2	1.97	0.47
1:A:548:THR:HG21	1:A:579:LYS:HG2	1.97	0.47
3:C:209:SER:N	3:C:210:SER:HA	2.29	0.47
1:A:375:ILE:HD11	1:A:382:LEU:HD13	1.96	0.46
1:A:383:LYS:NZ	7:A:819:HOH:O	2.48	0.46
4:P:186:LYS:HA	4:P:187:GLU:HA	1.55	0.46
4:P:166:LEU:HA	4:P:197:TYR:HE1	1.80	0.46
2:B:1:ASP:OD1	2:B:1:ASP:N	2.42	0.46
2:B:156:ARG:HH11	2:B:180:LEU:HD11	1.81	0.46
2:B:199:HIS:ND1	2:B:201:THR:OG1	2.43	0.46
1:A:659:LYS:HA	1:A:659:LYS:HD2	1.80	0.45
1:A:449:VAL:HB	1:A:614:ALA:HB3	1.99	0.45
4:P:152:PHE:HA	4:P:156:SER:HB2	1.99	0.45
3:C:191:PRO:HB2	3:C:194:PRO:HD2	1.98	0.44
1:A:516:VAL:HG11	1:A:543:PRO:HG2	1.99	0.44
2:B:31:THR:HG22	2:B:68:SER:HA	2.00	0.44
1:A:336:ASN:HB3	1:A:338:GLU:OE1	2.17	0.44
2:B:206:ILE:HD12	2:B:206:ILE:HA	1.89	0.44
1:A:468:ARG:HB3	4:P:211:ASP:OD2	2.18	0.44
3:C:44:LYS:HA	3:C:44:LYS:HD2	1.85	0.44
3:C:67:ARG:NH2	3:C:90:ASP:OD1	2.42	0.43
4:P:152:PHE:CG	4:P:206:ALA:HB2	2.54	0.43
2:B:192:SER:HA	2:B:211:ASN:OD1	2.19	0.43
4:P:185:LEU:HD21	4:P:197:TYR:CE2	2.53	0.43
1:A:518:ALA:O	1:A:519:SER:HB3	2.19	0.43
2:B:48:TRP:O	2:B:59:VAL:HG21	2.18	0.43
1:A:547:SER:HB2	1:A:582:GLN:NE2	2.33	0.43
2:B:163:SER:OG	3:C:174:PRO:O	2.33	0.43
1:A:348:LEU:HD13	1:A:568:TYR:CZ	2.53	0.42
1:A:466:LEU:HD23	1:A:466:LEU:HA	1.86	0.42
2:B:141:TYR:CG	2:B:142:PRO:HA	2.54	0.42
2:B:109:ARG:HG2	2:B:110:ALA:N	2.34	0.42
3:C:37:TRP:CE2	3:C:81:LEU:HB2	2.54	0.42
1:A:406:ILE:HG21	1:A:409:ASP:HB3	2.02	0.42
1:A:585:ALA:HB3	1:A:608:ALA:HB1	2.02	0.41
2:B:113:ALA:N	2:B:201:THR:HG21	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:542:TYR:C	1:A:544:PRO:HD2	2.40	0.41
1:A:528:THR:HA	1:A:529:PRO:HD3	1.91	0.41
2:B:197:ALA:HB3	2:B:206:ILE:HG22	2.02	0.41
1:A:596:HIS:NE2	7:A:873:HOH:O	2.25	0.41
2:B:16:GLY:HA2	2:B:78:SER:OG	2.20	0.41
1:A:396:ARG:HD2	7:A:892:HOH:O	2.21	0.41
3:C:8:GLY:HA3	3:C:20:LEU:HD23	2.02	0.41
3:C:177:LEU:HD23	3:C:177:LEU:HA	1.93	0.41
3:C:48:TRP:CZ2	3:C:50:GLY:HA2	2.56	0.41
3:C:97:VAL:HG23	3:C:110:TRP:HA	2.03	0.41
4:P:162:VAL:HG21	4:P:204:LYS:HE2	2.03	0.41
2:B:114:PRO:CA	2:B:140:PHE:HB3	2.51	0.41
1:A:543:PRO:N	1:A:544:PRO:HD2	2.35	0.40
1:A:595:PRO:O	1:A:598:SER:HB3	2.21	0.40
1:A:339:PHE:CE1	1:A:445:GLY:HA2	2.57	0.40
1:A:570:LEU:HD12	1:A:570:LEU:HA	1.87	0.40
1:A:590:ILE:HG13	1:A:607:MET:HB3	2.04	0.40
3:C:6:GLU:OE1	3:C:6:GLU:N	2.54	0.40
3:C:154:PRO:O	3:C:206:HIS:NE2	2.43	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	335/344 (97%)	323 (96%)	11 (3%)	1 (0%)	41 46
2	B	203/212 (96%)	190 (94%)	13 (6%)	0	100 100
3	C	212/220 (96%)	202 (95%)	10 (5%)	0	100 100
4	P	79/93 (85%)	76 (96%)	3 (4%)	0	100 100
All	All	829/869 (95%)	791 (95%)	37 (4%)	1 (0%)	51 60

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	427	TYR

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	297/303 (98%)	289 (97%)	8 (3%)	44	54
2	B	168/186 (90%)	162 (96%)	6 (4%)	35	42
3	C	178/194 (92%)	172 (97%)	6 (3%)	37	45
4	P	76/87 (87%)	73 (96%)	3 (4%)	32	38
All	All	719/770 (93%)	696 (97%)	23 (3%)	39	47

All (23) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	340	ARG
1	A	447	VAL
1	A	452	ASN
1	A	494	ASP
1	A	522	SER
1	A	531	ILE
1	A	545	ILE
1	A	567	HIS
2	B	109	ARG
2	B	145	ILE
2	B	163	SER
2	B	192	SER
2	B	201	THR
2	B	212	ARG
3	C	62	ASP
3	C	67	ARG
3	C	104	GLN
3	C	143	VAL
3	C	185	SER

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Mol	Chain	Res	Type
3	C	193	SER
4	P	149	THR
4	P	187	GLU
4	P	190	THR

Sometimes 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 monosaccharides 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	336/344 (97%)	0.48	26 (7%)	13	14	23, 39, 69, 128	1 (0%)
2	B	207/212 (97%)	0.51	15 (7%)	15	16	24, 49, 88, 108	0
3	C	216/220 (98%)	0.44	18 (8%)	11	12	25, 52, 89, 106	0
4	P	81/93 (87%)	1.37	22 (27%)	0	0	43, 73, 104, 126	0
All	All	840/869 (96%)	0.56	81 (9%)	8	8	23, 46, 90, 128	1 (0%)

All (81) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	563	ASP	6.2
2	B	152	ASP	5.2
4	P	150	PRO	5.1
1	A	565	ASN	5.1
4	P	189	THR	4.9
1	A	526	SER	4.9
4	P	188	ASP	4.8
4	P	187	GLU	4.8
1	A	669	LYS	4.6
1	A	564	ASN	4.6
4	P	138	LEU	4.5
2	B	205	PRO	4.4
2	B	192	SER	4.3
4	P	191	ASP	4.3
2	B	151	ILE	4.3
1	A	339	PHE	4.2
2	B	158	ASN	4.0
4	P	186	LYS	3.8
2	B	202	SER	3.7
1	A	609	ALA	3.7
2	B	126	LEU	3.5

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Mol	Chain	Res	Type	RSRZ
1	A	608	ALA	3.3
3	C	177	LEU	3.3
2	B	154	SER	3.3
4	P	216	ALA	3.2
2	B	169	SER	3.2
3	C	197	SER	3.2
1	A	527	SER	3.1
2	B	149	TRP	3.1
4	P	190	THR	3.1
3	C	191	PRO	3.1
3	C	134	GLY	3.1
4	P	149	THR	3.0
4	P	217	ASP	3.0
3	C	11	LEU	2.9
4	P	157	LEU	2.9
3	C	141	SER	2.9
1	A	607	MET	2.9
4	P	137	LYS	2.9
1	A	528	THR	2.8
3	C	220	ARG	2.8
1	A	566	ASN	2.8
1	A	610	PRO	2.8
4	P	192	ASP	2.8
4	P	199	LYS	2.8
4	P	185	LEU	2.8
2	B	129	GLY	2.8
1	A	488	ASN	2.7
1	A	490	SER	2.7
4	P	200	ILE	2.7
1	A	591	TYR	2.7
3	C	219	PRO	2.6
1	A	489	GLY	2.6
1	A	436	ILE	2.6
3	C	140	ASN	2.6
4	P	197	TYR	2.5
2	B	168	ASP	2.5
1	A	613	ALA	2.5
4	P	195	ILE	2.5
3	C	97	VAL	2.4
3	C	176	VAL	2.4
1	A	432	VAL	2.4
3	C	194	PRO	2.4

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Mol	Chain	Res	Type	RSRZ
4	P	147	ALA	2.4
3	C	193	SER	2.3
3	C	142	MET	2.3
1	A	515	PHE	2.3
1	A	435	ILE	2.3
4	P	151	SER	2.3
1	A	370	VAL	2.3
2	B	210	PHE	2.2
4	P	203	GLU	2.2
1	A	342	LEU	2.1
1	A	606	SER	2.1
3	C	169	GLY	2.1
2	B	203	THR	2.1
3	C	192	SER	2.1
2	B	183	THR	2.1
1	A	491	PHE	2.1
3	C	196	PRO	2.1
3	C	210	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
5	NI	A	701	1/1	0.71	0.12	81,81,81,81	0
5	NI	P	301	1/1	0.98	0.06	55,55,55,55	0
6	CA	A	702	1/1	0.98	0.06	33,33,33,33	0
6	CA	A	703	1/1	0.99	0.08	31,31,31,31	0
6	CA	A	704	1/1	1.00	0.08	31,31,31,31	0

6.5 Other polymers (i)

There are no such residues in this entry.