



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 13, 2017 – 03:24 am GMT

PDB ID : 3L0B
Title : Crystal structure of SCP1 phosphatase D206A mutant phosphoryl-intermediate
Authors : Zhang, M.; Zhang, Y.
Deposited on : 2009-12-09
Resolution : 2.35 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

<http://wwpdb.org/validation/2016/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
Mogul : 1.7.2 (RC1), CSD as538be (2017)
Xtrriage (Phenix) : 1.9-1692
EDS : trunk28620
Percentile statistics : 20161228.v01 (using entries in the PDB archive December 28th 2016)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : recalc28949

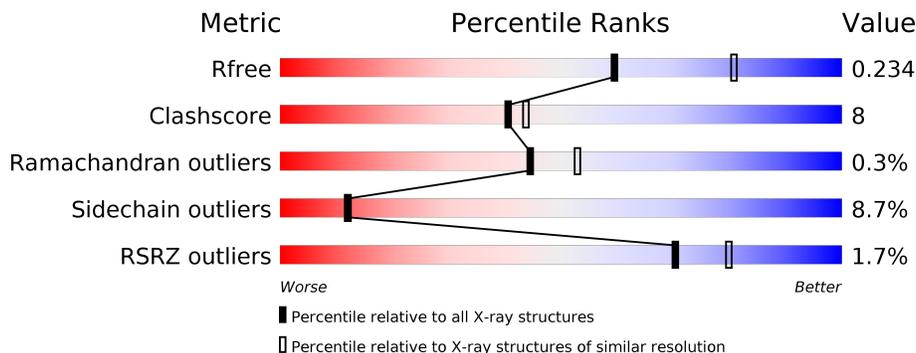
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.35 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}	100719	1522 (2.38-2.34)
Clashscore	112137	1626 (2.38-2.34)
Ramachandran outliers	110173	1605 (2.38-2.34)
Sidechain outliers	110143	1606 (2.38-2.34)
RSRZ outliers	101464	1528 (2.38-2.34)

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. 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	184	<p>0% (upper bar)</p> <p>77% (green), 16% (yellow), 3% (orange), 2% (red), 2% (grey)</p>
1	B	184	<p>3% (upper bar)</p> <p>78% (green), 16% (yellow), 3% (orange), 2% (red), 2% (grey)</p>

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	1PG	A	300	-	-	-	X

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 3040 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 Carboxy-terminal domain RNA polymerase II polypeptide A small phosphatase 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	N	O	P				S
1	A	180	1465	939	249	271	1	5	0	0	0
1	B	180	1461	939	249	268		5	0	0	0

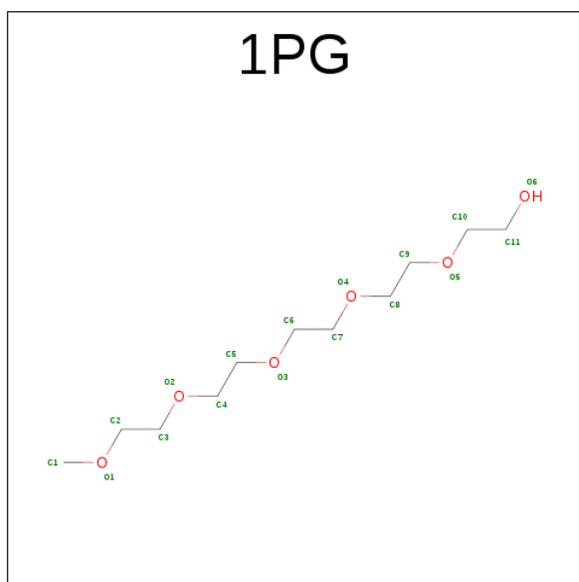
There are 10 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	73	GLY	-	EXPRESSION TAG	UNP Q9GZU7
A	74	SER	-	EXPRESSION TAG	UNP Q9GZU7
A	75	HIS	-	EXPRESSION TAG	UNP Q9GZU7
A	76	GLY	-	EXPRESSION TAG	UNP Q9GZU7
A	206	ALA	ASP	ENGINEERED	UNP Q9GZU7
B	73	GLY	-	EXPRESSION TAG	UNP Q9GZU7
B	74	SER	-	EXPRESSION TAG	UNP Q9GZU7
B	75	HIS	-	EXPRESSION TAG	UNP Q9GZU7
B	76	GLY	-	EXPRESSION TAG	UNP Q9GZU7
B	206	ALA	ASP	ENGINEERED	UNP Q9GZU7

- Molecule 2 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

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

- Molecule 3 is 2-(2-{2-[2-(2-METHOXY-ETHOXY)-ETHOXY]-ETHOXY}-ETHOXY)-ETHANOL (three-letter code: 1PG) (formula: C₁₁H₂₄O₆).



Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	1	Total	C O	0	0
			17	11 6		

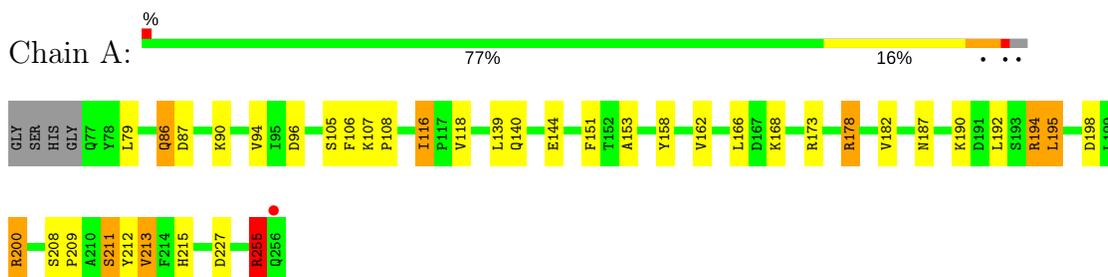
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	57	Total	O	0	0
			57	57		
4	B	39	Total	O	0	0
			39	39		

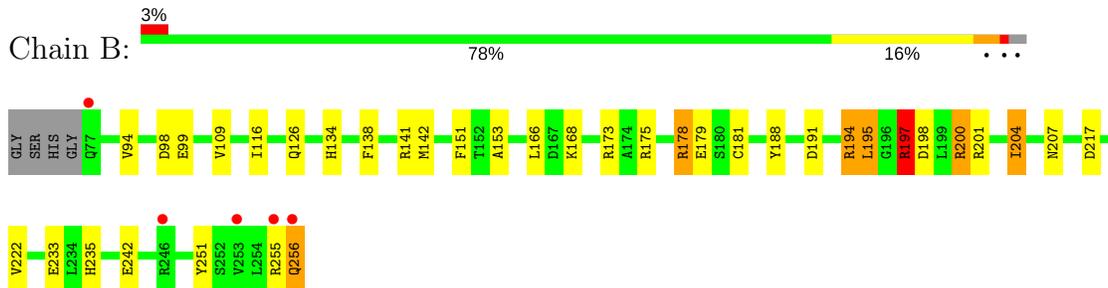
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA 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: Carboxy-terminal domain RNA polymerase II polypeptide A small phosphatase 1



- Molecule 1: Carboxy-terminal domain RNA polymerase II polypeptide A small phosphatase 1



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	124.67Å 78.19Å 62.59Å 90.00° 112.34° 90.00°	Depositor
Resolution (Å)	64.68 – 2.35 48.60 – 2.35	Depositor EDS
% Data completeness (in resolution range)	91.2 (64.68-2.35) 91.2 (48.60-2.35)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.07	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.48 (at 2.34Å)	Xtrriage
Refinement program	REFMAC 5.5.0072	Depositor
R, R_{free}	0.190 , 0.249 0.184 , 0.234	Depositor DCC
R_{free} test set	1107 reflections (5.49%)	DCC
Wilson B-factor (Å ²)	31.1	Xtrriage
Anisotropy	0.107	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.38 , 36.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	3040	wwPDB-VP
Average B, all atoms (Å ²)	29.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.45% 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: MG, 1PG, PHD

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	1.08	0/1488	1.02	3/2020 (0.1%)
1	B	1.05	1/1488 (0.1%)	1.03	7/2020 (0.3%)
All	All	1.07	1/2976 (0.0%)	1.02	10/4040 (0.2%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	181	CYS	CB-SG	-5.81	1.72	1.81

All (10) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	200	ARG	NE-CZ-NH2	-9.19	115.71	120.30
1	A	200	ARG	NE-CZ-NH1	7.65	124.13	120.30
1	B	197	ARG	NE-CZ-NH2	-6.79	116.91	120.30
1	A	227	ASP	CB-CG-OD1	6.15	123.83	118.30
1	A	213	VAL	CB-CA-C	-6.14	99.74	111.40
1	B	175	ARG	NE-CZ-NH2	-6.05	117.28	120.30
1	B	173	ARG	NE-CZ-NH1	5.79	123.19	120.30
1	B	201	ARG	NE-CZ-NH2	-5.21	117.70	120.30
1	B	197	ARG	NE-CZ-NH1	5.19	122.90	120.30
1	B	178	ARG	NE-CZ-NH1	5.08	122.84	120.30

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	1465	0	1433	28	0
1	B	1461	0	1433	20	0
2	A	1	0	0	0	0
3	A	17	0	24	4	0
4	A	57	0	0	5	0
4	B	39	0	0	7	0
All	All	3040	0	2890	48	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 8.

All (48) 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:86:GLN:H	1:A:86:GLN:HE21	0.99	0.94
1:A:86:GLN:NE2	1:A:86:GLN:H	1.72	0.85
1:B:255:ARG:O	1:B:256:GLN:HB3	1.78	0.81
1:A:86:GLN:N	1:A:86:GLN:HE21	1.78	0.79
1:B:235:HIS:HE1	4:B:22:HOH:O	1.74	0.71
1:B:134:HIS:HD2	4:B:55:HOH:O	1.80	0.64
1:A:194:ARG:NH1	4:A:66:HOH:O	2.29	0.63
1:B:178:ARG:HD2	1:B:188:TYR:CZ	2.35	0.62
1:B:98:ASP:O	1:B:99:GLU:HB2	2.03	0.57
1:A:90:LYS:NZ	4:A:60:HOH:O	2.36	0.56
1:B:94:VAL:HG12	1:B:204:ILE:HD12	1.88	0.56
1:A:208:SER:O	1:A:211:SER:HB2	2.06	0.56
1:B:197:ARG:HG2	4:B:35:HOH:O	2.04	0.56
1:A:187:ASN:HB2	4:A:54:HOH:O	2.04	0.55
1:A:106:PHE:CD2	3:A:300:1PG:H31	2.42	0.55
1:A:173:ARG:NH1	4:A:60:HOH:O	2.36	0.54
1:A:192:LEU:HA	1:A:195:LEU:HD22	1.90	0.54
1:A:198:ASP:OD1	1:A:200:ARG:HD3	2.07	0.53
1:A:79:LEU:HG	1:A:194:ARG:HG2	1.92	0.52
1:A:106:PHE:HD2	3:A:300:1PG:H31	1.74	0.51
1:B:191:ASP:HB3	4:B:29:HOH:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:209:PRO:HA	1:A:212:TYR:CZ	2.45	0.51
1:A:215:HIS:HD2	4:A:6:HOH:O	1.95	0.50
1:B:153:ALA:O	1:B:178:ARG:HB2	2.12	0.49
1:A:96:PHD:OP1	1:A:153:ALA:N	2.43	0.49
1:B:153:ALA:O	1:B:178:ARG:HD3	2.13	0.49
1:B:251:TYR:O	1:B:255:ARG:N	2.45	0.49
1:B:217:ASP:HB2	1:B:256:GLN:NE2	2.29	0.48
1:B:207:ASN:HA	1:B:222:VAL:O	2.15	0.47
1:A:90:LYS:NZ	1:A:144:GLU:O	2.44	0.46
1:A:118:VAL:HG11	3:A:300:1PG:H81	1.98	0.45
1:A:192:LEU:O	1:A:195:LEU:HB2	2.16	0.44
1:A:116:ILE:HD12	1:A:162:VAL:HG23	2.00	0.43
1:A:87:ASP:OD1	1:A:173:ARG:NH1	2.51	0.42
1:B:194:ARG:HD3	4:B:33:HOH:O	2.18	0.42
1:A:116:ILE:CD1	1:A:162:VAL:HG23	2.49	0.42
1:A:153:ALA:O	1:A:178:ARG:HD3	2.20	0.42
1:B:138:PHE:O	1:B:142:MET:HG2	2.19	0.42
1:B:198:ASP:OD1	1:B:200:ARG:HD3	2.20	0.41
1:A:139:LEU:HA	1:A:139:LEU:HD23	1.81	0.41
1:A:168:LYS:HA	1:A:168:LYS:HD3	1.80	0.41
1:B:94:VAL:HG21	1:B:195:LEU:HD21	2.02	0.41
1:B:134:HIS:CD2	4:B:55:HOH:O	2.66	0.41
1:A:255:ARG:HB2	1:A:255:ARG:HE	1.73	0.41
1:A:105:SER:HA	3:A:300:1PG:H22	2.02	0.41
1:B:141:ARG:HH21	1:B:242:GLU:CD	2.25	0.41
1:B:235:HIS:CE1	4:B:22:HOH:O	2.59	0.40
1:A:107:LYS:HA	1:A:108:PRO:HD3	1.91	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	177/184 (96%)	169 (96%)	7 (4%)	1 (1%)	28	32
1	B	177/184 (96%)	163 (92%)	14 (8%)	0	100	100
All	All	354/368 (96%)	332 (94%)	21 (6%)	1 (0%)	44	53

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	255	ARG

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	161/163 (99%)	146 (91%)	15 (9%)	10	10
1	B	161/163 (99%)	148 (92%)	13 (8%)	14	14
All	All	322/326 (99%)	294 (91%)	28 (9%)	12	12

All (28) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	86	GLN
1	A	94	VAL
1	A	116	ILE
1	A	140	GLN
1	A	151	PHE
1	A	158	TYR
1	A	166	LEU
1	A	178	ARG
1	A	182	VAL
1	A	190	LYS
1	A	194	ARG
1	A	195	LEU
1	A	211	SER
1	A	213	VAL
1	A	255	ARG

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Mol	Chain	Res	Type
1	B	109	VAL
1	B	116	ILE
1	B	126	GLN
1	B	151	PHE
1	B	166	LEU
1	B	168	LYS
1	B	179	GLU
1	B	194	ARG
1	B	195	LEU
1	B	197	ARG
1	B	204	ILE
1	B	233	GLU
1	B	256	GLN

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

Mol	Chain	Res	Type
1	A	86	GLN
1	A	110	ASN
1	A	140	GLN
1	A	207	ASN
1	A	215	HIS
1	B	77	GLN
1	B	134	HIS
1	B	235	HIS
1	B	256	GLN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

2 non-standard protein/DNA/RNA residues 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	$\# Z > 2$
1	PHD	A	96	1,2	10,11,12	1.37	1 (10%)	12,15,17	1.94	5 (41%)
1	PHD	B	96	1	4,7,12	0.96	0	3,8,17	2.69	2 (66%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the chemical component dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	PHD	A	96	1,2	-	0/7/11/13	0/0/0/0
1	PHD	B	96	1	-	0/2/6/13	0/0/0/0

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	96	PHD	P-OD1	2.34	1.63	1.59

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	96	PHD	CB-CA-C	-4.04	103.62	111.41
1	A	96	PHD	CB-CA-C	-3.85	104.00	111.41
1	A	96	PHD	OD1-P-OP1	-2.66	97.34	108.44
1	A	96	PHD	CA-CB-CG	-2.56	107.76	112.88
1	B	96	PHD	O-C-CA	-2.20	118.95	125.02
1	A	96	PHD	OP3-P-OP2	2.11	116.14	107.61
1	A	96	PHD	OD1-CG-CB	2.18	116.79	110.93

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	A	96	PHD	1	0

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 2 ligands modelled in this entry, 1 is monoatomic - leaving 1 for Mogul analysis.

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	$\# Z > 2$
3	1PG	A	300	-	16,16,16	0.67	0	15,15,15	0.44	0

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the chemical component dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	1PG	A	300	-	-	0/14/14/14	0/0/0/0

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.

1 monomer is involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	300	1PG	4	0

5.7 Other polymers [i](#)

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 [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	179/184 (97%)	-0.45	1 (0%) 89 94	12, 23, 35, 63	0
1	B	179/184 (97%)	-0.16	5 (2%) 53 64	16, 33, 51, 76	0
All	All	358/368 (97%)	-0.31	6 (1%) 70 80	12, 27, 47, 76	0

All (6) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	246	ARG	3.2
1	A	256	GLN	2.5
1	B	255	ARG	2.5
1	B	253	VAL	2.5
1	B	256	GLN	2.5
1	B	77	GLN	2.1

6.2 Non-standard residues in protein, DNA, RNA chains [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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors(Å ²)	Q<0.9
1	PHD	B	96	8/13	0.91	0.19	-	31,33,53,54	0
1	PHD	A	96	12/13	0.95	0.17	-	14,23,28,29	6

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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors(Å ²)	Q<0.9
3	1PG	A	300	17/17	0.78	0.24	4.48	66,72,75,75	0
2	MG	A	257	1/1	0.95	0.09	-	20,20,20,20	1

6.5 Other polymers [i](#)

There are no such residues in this entry.