



wwPDB X-ray Structure Validation Summary Report ⓘ

Apr 5, 2026 – 01:49 PM UTC

PDB ID : 3GJ1 / pdb_00003gj1
Title : Non photoactivated state of PA-GFP
Authors : Henderson, J.N.; Gepshtein, R.; Heenan, J.R.; Kallio, K.; Huppert, D.; Remington, S.J.
Deposited on : 2009-03-07
Resolution : 1.80 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 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
Mogul : 2022.3.0, CSD as543be (2022)
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

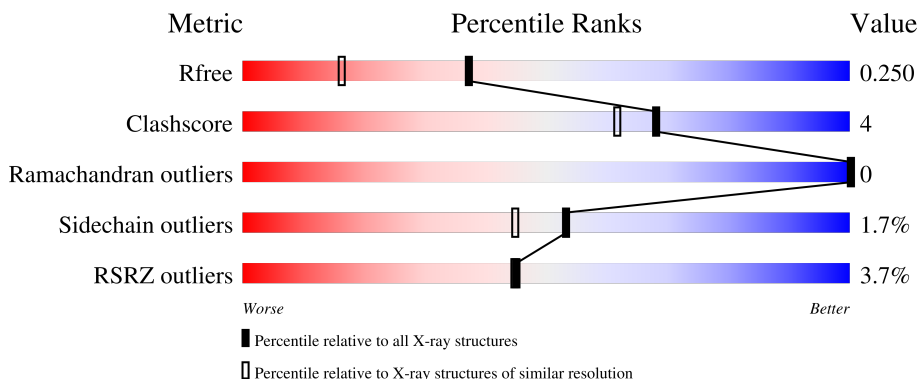
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

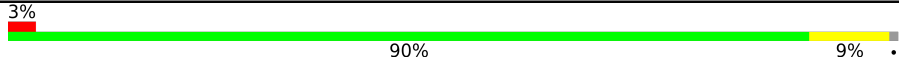
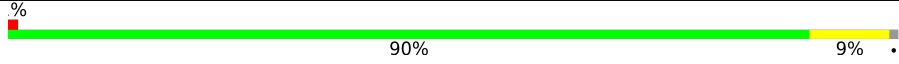


The reported resolution of this entry is 1.80 Å.

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	7662 (1.80-1.80)
Clashscore	190562	8479 (1.80-1.80)
Ramachandran outliers	187476	8391 (1.80-1.80)
Sidechain outliers	187428	8390 (1.80-1.80)
RSRZ outliers	180081	7663 (1.80-1.80)

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	229	 3% 90% 9%
1	B	229	 0% 90% 9%
1	C	229	 5% 85% 11%
1	D	229	 5% 87% 11%

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 7792 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 Green fluorescent protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	227	Total 1785	C 1139	N 301	O 340	S 5	0	4	0
1	B	227	Total 1857	C 1184	N 310	O 358	S 5	0	13	0
1	C	223	Total 1753	C 1117	N 292	O 339	S 5	0	7	0
1	D	226	Total 1751	C 1113	N 291	O 342	S 5	0	3	0

There are 28 discrepancies between the modelled and reference sequences:

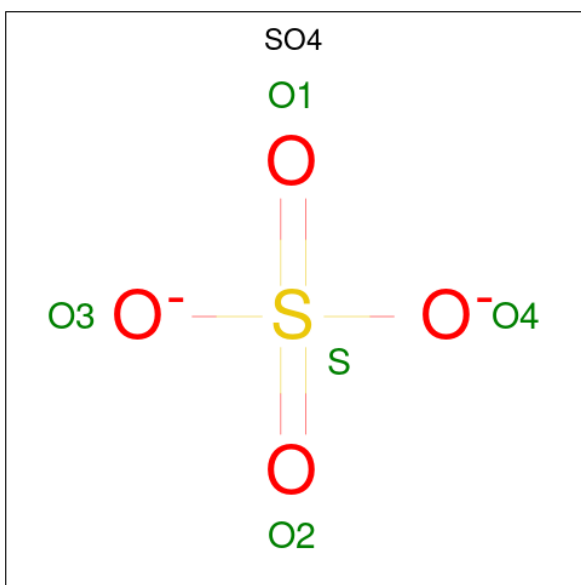
Chain	Residue	Modelled	Actual	Comment	Reference
A	0	SER	-	expression tag	UNP P42212
A	?	-	SER	chromophore	UNP P42212
A	80	ARG	GLN	engineered mutation	UNP P42212
A	99	SER	PHE	engineered mutation	UNP P42212
A	153	THR	MET	engineered mutation	UNP P42212
A	163	ALA	VAL	engineered mutation	UNP P42212
A	203	HIS	THR	engineered mutation	UNP P42212
B	0	SER	-	expression tag	UNP P42212
B	?	-	SER	chromophore	UNP P42212
B	80	ARG	GLN	engineered mutation	UNP P42212
B	99	SER	PHE	engineered mutation	UNP P42212
B	153	THR	MET	engineered mutation	UNP P42212
B	163	ALA	VAL	engineered mutation	UNP P42212
B	203	HIS	THR	engineered mutation	UNP P42212
C	0	SER	-	expression tag	UNP P42212
C	?	-	SER	chromophore	UNP P42212
C	80	ARG	GLN	engineered mutation	UNP P42212
C	99	SER	PHE	engineered mutation	UNP P42212
C	153	THR	MET	engineered mutation	UNP P42212
C	163	ALA	VAL	engineered mutation	UNP P42212
C	203	HIS	THR	engineered mutation	UNP P42212

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Chain	Residue	Modelled	Actual	Comment	Reference
D	0	SER	-	expression tag	UNP P42212
D	?	-	SER	chromophore	UNP P42212
D	80	ARG	GLN	engineered mutation	UNP P42212
D	99	SER	PHE	engineered mutation	UNP P42212
D	153	THR	MET	engineered mutation	UNP P42212
D	163	ALA	VAL	engineered mutation	UNP P42212
D	203	HIS	THR	engineered mutation	UNP P42212

- Molecule 2 is SULFATE ION (CCD ID: SO4) (formula: O₄S).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total O S 5 4 1	0	0
2	B	1	Total O S 5 4 1	0	0
2	C	1	Total O S 5 4 1	0	0
2	D	1	Total O S 5 4 1	0	0
2	D	1	Total O S 5 4 1	0	1

- Molecule 3 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total Cl 1 1	0	0
3	B	2	Total Cl 2 2	0	0
3	C	1	Total Cl 1 1	0	0
3	D	1	Total Cl 1 1	0	0

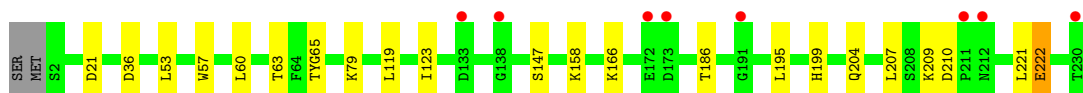
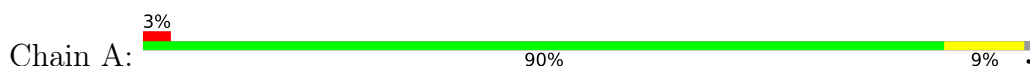
- Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	159	Total O 159 159	0	4
4	B	189	Total O 189 189	0	6
4	C	121	Total O 121 121	0	6
4	D	147	Total O 147 147	0	3

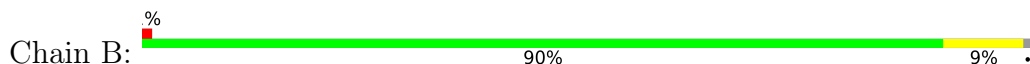
3 Residue-property plots [i](#)

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.

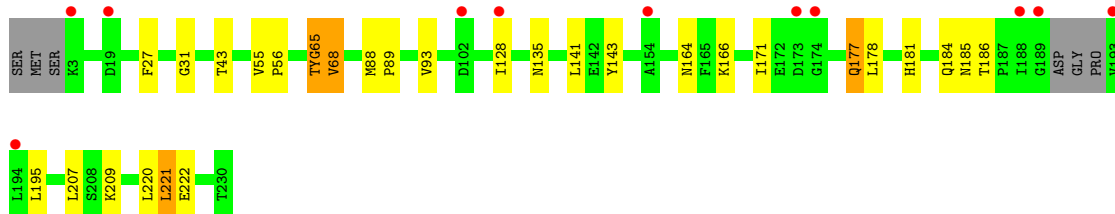
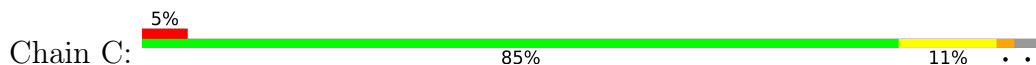
- Molecule 1: Green fluorescent protein



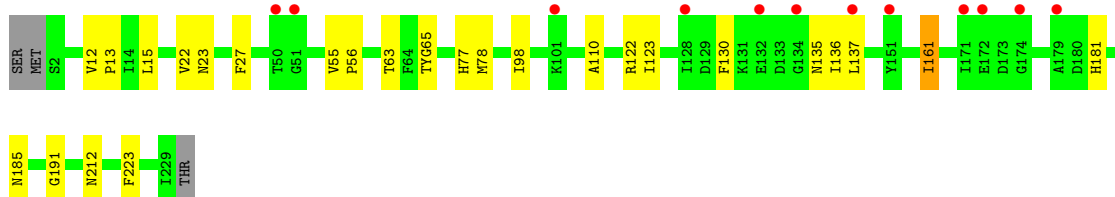
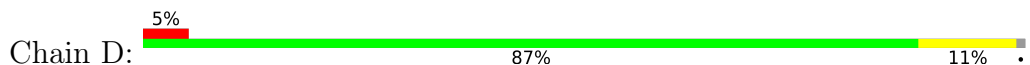
- Molecule 1: Green fluorescent protein



- Molecule 1: Green fluorescent protein



- Molecule 1: Green fluorescent protein



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	84.52Å 86.72Å 144.16Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	46.37 – 1.80 46.37 – 1.80	Depositor EDS
% Data completeness (in resolution range)	93.3 (46.37-1.80) 93.3 (46.37-1.80)	Depositor EDS
R_{merge}	0.04	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.70 (at 1.81Å)	Xtrriage
Refinement program	REFMAC	Depositor
R, R_{free}	0.209 , 0.252 0.207 , 0.250	Depositor DCC
R_{free} test set	4596 reflections (5.01%)	wwPDB-VP
Wilson B-factor (Å ²)	21.5	Xtrriage
Anisotropy	0.131	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 38.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.34$	Xtrriage
Estimated twinning fraction	0.012 for k,h,-l	Xtrriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	7792	wwPDB-VP
Average B, all atoms (Å ²)	22.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 8.38% 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: SO4, CL, CRO

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	1.30	3/1817 (0.2%)	1.14	4/2463 (0.2%)
1	B	1.25	6/1916 (0.3%)	1.10	3/2592 (0.1%)
1	C	1.22	3/1792 (0.2%)	1.09	0/2428
1	D	1.23	2/1780 (0.1%)	1.12	5/2421 (0.2%)
All	All	1.25	14/7305 (0.2%)	1.11	12/9904 (0.1%)

The worst 5 of 14 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	87	ALA	CA-CB	7.57	1.66	1.53
1	B	16	VAL	C-O	6.70	1.30	1.24
1	A	79	LYS	CB-CG	6.49	1.72	1.52
1	D	13	PRO	C-O	6.05	1.30	1.23
1	B	101	LYS	N-CA	5.69	1.53	1.46

The worst 5 of 12 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	13	PRO	CB-CA-C	-6.24	102.81	110.98
1	B	116	GLY	N-CA-C	-5.82	101.46	111.47
1	A	210	ASP	CA-C-N	-5.73	113.91	119.87
1	A	210	ASP	C-N-CA	-5.73	113.91	119.87
1	B	215	ARG	NE-CZ-NH2	5.52	124.16	119.20

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	1785	0	1681	9	0
1	B	1857	0	1788	6	0
1	C	1753	0	1632	25	0
1	D	1751	0	1599	11	0
2	A	5	0	0	0	0
2	B	5	0	0	0	0
2	C	5	0	0	0	0
2	D	10	0	0	0	0
3	A	1	0	0	0	0
3	B	2	0	0	0	0
3	C	1	0	0	0	0
3	D	1	0	0	1	0
4	A	159	0	0	1	0
4	B	189	0	0	0	0
4	C	121	0	0	1	0
4	D	147	0	0	1	0
All	All	7792	0	6700	50	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 4.

The worst 5 of 50 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:65:CRO:C3	1:C:68:VAL:N	1.73	1.50
1:C:43[B]:THR:HG22	1:C:221[B]:LEU:HG	1.30	1.09
1:C:65:CRO:C3	1:C:68:VAL:CA	2.40	0.98
3:D:233:CL:CL	4:D:441:HOH:O	2.29	0.88
1:C:43[B]:THR:HG22	1:C:221[B]:LEU:CG	2.05	0.87

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	226/229 (99%)	223 (99%)	3 (1%)	0	100	100
1	B	235/229 (103%)	233 (99%)	2 (1%)	0	100	100
1	C	223/229 (97%)	218 (98%)	5 (2%)	0	100	100
1	D	224/229 (98%)	220 (98%)	4 (2%)	0	100	100
All	All	908/916 (99%)	894 (98%)	14 (2%)	0	100	100

There are no Ramachandran outliers to report.

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	184/199 (92%)	181 (98%)	3 (2%)	55	47
1	B	200/199 (100%)	199 (100%)	1 (0%)	81	80
1	C	181/199 (91%)	175 (97%)	6 (3%)	33	21
1	D	178/199 (89%)	175 (98%)	3 (2%)	53	45
All	All	743/796 (93%)	730 (98%)	13 (2%)	53	45

5 of 13 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	C	186	THR
1	C	221[A]	LEU
1	D	212	ASN

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Mol	Chain	Res	Type
1	D	15	LEU
1	D	161	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 11 such sidechains are listed below:

Mol	Chain	Res	Type
1	D	77	HIS
1	D	149	ASN
1	D	212	ASN
1	D	164	ASN
1	C	121	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](#)

4 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	CRO	A	65	1	20,22,24	3.23	6 (30%)	25,30,34	3.19	9 (36%)
1	CRO	D	65	1	20,22,24	3.91	5 (25%)	25,30,34	2.66	7 (28%)
1	CRO	C	65	-	20,22,24	3.11	6 (30%)	25,30,34	3.11	11 (44%)
1	CRO	B	65	1	20,22,24	3.13	4 (20%)	25,30,34	2.74	10 (40%)

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. '2' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	CRO	A	65	1	-	1/10/29/32	0/2/2/2
1	CRO	D	65	1	-	1/10/29/32	0/2/2/2
1	CRO	C	65	-	-	2/10/29/32	0/2/2/2
1	CRO	B	65	1	-	1/10/29/32	0/2/2/2

The worst 5 of 21 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	65	CRO	CB2-CA2	14.79	1.49	1.35
1	A	65	CRO	CB2-CA2	11.60	1.46	1.35
1	C	65	CRO	CB2-CA2	11.30	1.46	1.35
1	B	65	CRO	CB2-CA2	10.64	1.45	1.35
1	D	65	CRO	CA2-C2	-6.13	1.41	1.48

The worst 5 of 37 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	65	CRO	O2-C2-CA2	-10.33	124.43	131.02
1	C	65	CRO	O2-C2-CA2	-9.70	124.83	131.02
1	D	65	CRO	O2-C2-CA2	-8.65	125.50	131.02
1	B	65	CRO	O2-C2-CA2	-8.48	125.61	131.02
1	C	65	CRO	CA2-C2-N3	6.74	109.16	103.50

There are no chirality outliers.

All (5) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	C	65	CRO	N1-CA1-CB1-OG1
1	C	65	CRO	C3-CA3-N3-C2
1	A	65	CRO	N1-CA1-CB1-OG1
1	B	65	CRO	N1-CA1-CB1-OG1
1	D	65	CRO	N1-CA1-CB1-OG1

There are no ring outliers.

1 monomer is involved in 5 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	C	65	CRO	5	0

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 10 ligands modelled in this entry, 5 are monoatomic - leaving 5 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	$\# Z > 2$
2	SO4	D	232[B]	-	4,4,4	0.15	0	6,6,6	0.28	0
2	SO4	D	231	-	4,4,4	0.28	0	6,6,6	0.37	0
2	SO4	B	231	-	4,4,4	0.28	0	6,6,6	0.31	0
2	SO4	A	231	-	4,4,4	0.51	0	6,6,6	0.59	0
2	SO4	C	231	-	4,4,4	0.48	0	6,6,6	0.40	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.

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](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	C	2

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Mol	Chain	Number of breaks
1	D	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	C	65:CRO	C3	68:VAL	N	1.73
1	D	64:PHE	C	65:CRO	N1	1.61
1	C	64:PHE	C	65:CRO	N1	1.60

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	226/229 (98%)	-0.15	8 (3%) 47 47	9, 19, 32, 43	4 (1%)
1	B	226/229 (98%)	-0.21	2 (0%) 81 81	8, 18, 32, 42	13 (5%)
1	C	222/229 (96%)	0.48	11 (4%) 34 33	11, 26, 40, 55	7 (3%)
1	D	225/229 (98%)	0.35	12 (5%) 32 31	11, 24, 41, 49	3 (1%)
All	All	899/916 (98%)	0.12	33 (3%) 45 45	8, 21, 38, 55	27 (3%)

The worst 5 of 33 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	230	THR	4.8
1	C	193	VAL	4.4
1	C	194	LEU	3.9
1	A	230	THR	3.4
1	A	173	ASP	3.0

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. 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
1	CRO	C	65	21/23	0.94	0.07	13,19,25,28	0
1	CRO	D	65	21/23	0.96	0.06	11,18,21,22	0
1	CRO	A	65	21/23	0.97	0.04	9,11,17,20	0
1	CRO	B	65	21/23	0.97	0.05	9,15,18,22	0

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
2	SO4	B	231	5/5	0.73	0.17	47,48,49,49	5
2	SO4	D	232[B]	5/5	0.89	0.11	35,35,37,37	5
3	CL	D	233	1/1	0.92	0.12	41,41,41,41	0
2	SO4	A	231	5/5	0.94	0.10	13,14,20,24	5
3	CL	C	232	1/1	0.95	0.10	26,26,26,26	0
3	CL	A	232	1/1	0.95	0.09	37,37,37,37	0
2	SO4	C	231	5/5	0.96	0.07	15,15,22,22	5
2	SO4	D	231	5/5	0.96	0.08	13,22,25,26	5
3	CL	B	232	1/1	0.99	0.03	22,22,22,22	0
3	CL	B	233	1/1	0.99	0.02	18,18,18,18	0

6.5 Other polymers [i](#)

There are no such residues in this entry.