



# Full wwPDB X-ray Structure Validation Report ⓘ

Nov 6, 2023 – 06:48 PM EST

PDB ID : 6C5X  
Title : Crystal Structure of SOCS1 in complex with ElonginB and ElonginC  
Authors : Kershaw, N.J.; Laktyushin, A.; Babon, J.J.  
Deposited on : 2018-01-17  
Resolution : 3.10 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](mailto: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>.

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The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467  
Mogul : 1.8.5 (274361), CSD as541be (2020)  
Xtriage (Phenix) : 1.13  
EDS : 2.36  
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) : 2.36

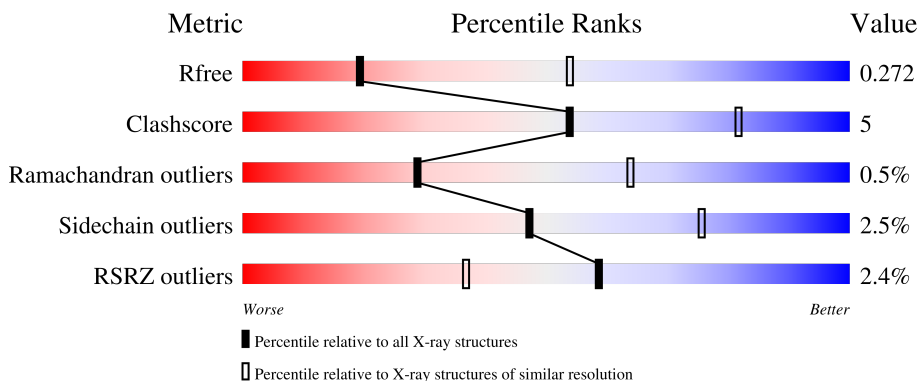
# 1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 3.10 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.



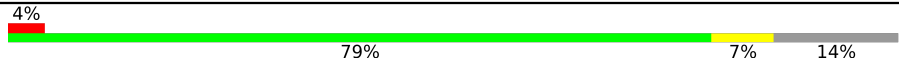
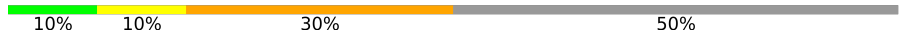
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
$R_{free}$	130704	1094 (3.10-3.10)
Clashscore	141614	1184 (3.10-3.10)
Ramachandran outliers	138981	1141 (3.10-3.10)
Sidechain outliers	138945	1141 (3.10-3.10)
RSRZ outliers	127900	1067 (3.10-3.10)

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  $\geq 3$ , 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	B	118	<div style="display: flex; align-items: center;"> <div style="width: 2%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 72%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 13%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 15%; height: 10px; background-color: grey;"></div> </div>
1	E	118	<div style="display: flex; align-items: center;"> <div style="width: 3%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 74%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 14%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 12%; height: 10px; background-color: grey;"></div> </div>
2	C	96	<div style="display: flex; align-items: center;"> <div style="width: 0%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 77%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 9%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 14%; height: 10px; background-color: grey;"></div> </div>
2	F	96	<div style="display: flex; align-items: center;"> <div style="width: 0%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 73%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 11%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 16%; height: 10px; background-color: grey;"></div> </div>
3	A	164	<div style="display: flex; align-items: center;"> <div style="width: 0%; height: 10px; background-color: red; margin-right: 5px;"></div> <div style="width: 73%; height: 10px; background-color: green; margin-right: 5px;"></div> <div style="width: 17%; height: 10px; background-color: yellow; margin-right: 5px;"></div> <div style="width: 8%; height: 10px; background-color: grey;"></div> </div>

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Mol	Chain	Length	Quality of chain
3	D	164	 4% 79% 7% 14%
4	G	10	 10% 10% 30% 50%

## 2 Entry composition [i](#)

There are 5 unique types of molecules in this entry. The entry contains 5069 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 Elongin-B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	B	100	773	492	130	148	3	0	0	0
1	E	104	785	501	129	152	3	0	0	0

- Molecule 2 is a protein called Elongin-C.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	C	83	636	419	99	113	5	0	0	0
2	F	81	621	410	99	108	4	0	0	0

- Molecule 3 is a protein called Suppressor of Cytokine Signalling 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
3	D	141	1050	680	176	187	7	0	0	0
3	A	151	1162	760	193	201	8	0	0	0

- Molecule 4 is a protein called GP130 peptide fragment.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
4	G	5	41	24	5	11	1	0	0	0

- Molecule 5 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	1	Total O 1 1	0	0

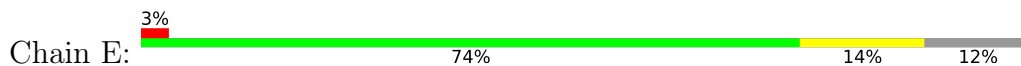
### 3 Residue-property plots [i](#)

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.

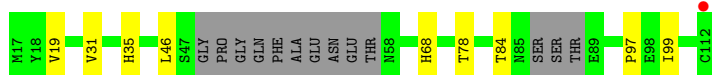
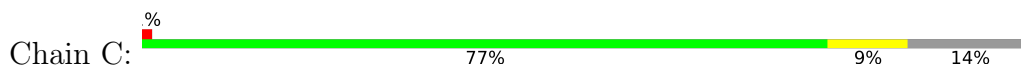
- Molecule 1: Elongin-B



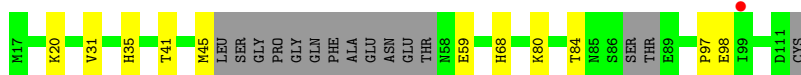
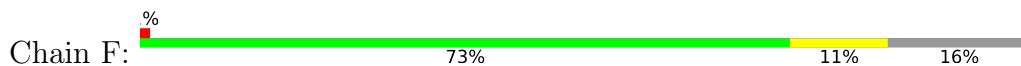
- Molecule 1: Elongin-B



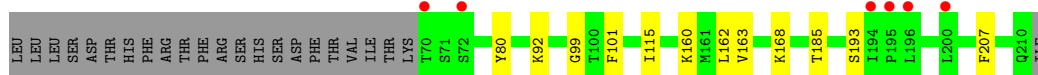
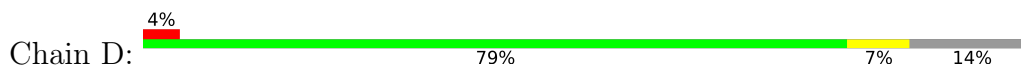
- Molecule 2: Elongin-C




- Molecule 2: Elongin-C

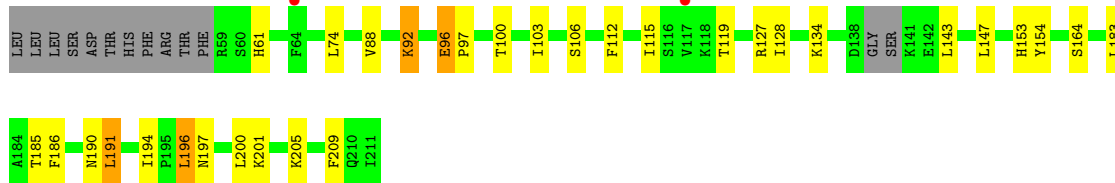


- Molecule 3: Suppressor of Cytokine Signalling 1



- Molecule 3: Suppressor of Cytokine Signalling 1

Chain A:  %



• Molecule 4: GP130 peptide fragment

Chain G:  %



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	61.12Å 80.00Å 132.75Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	55.52 – 3.10 66.37 – 3.10	Depositor EDS
% Data completeness (in resolution range)	99.2 (55.52-3.10) 99.2 (66.37-3.10)	Depositor EDS
$R_{merge}$	0.20	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	3.02 (at 3.13Å)	Xtrriage
Refinement program	PHENIX 1.10.1_2155	Depositor
R, $R_{free}$	0.235 , 0.271 0.235 , 0.272	Depositor DCC
$R_{free}$ test set	585 reflections (4.78%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	68.5	Xtrriage
Anisotropy	0.236	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.28 , 27.9	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.48$ , $\langle L^2 \rangle = 0.30$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
$F_o, F_c$ correlation	0.88	EDS
Total number of atoms	5069	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	61.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.56% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical 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: PTR

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	B	0.25	0/789	0.47	0/1070
1	E	0.24	0/801	0.44	0/1089
2	C	0.24	0/649	0.38	0/879
2	F	0.23	0/634	0.36	0/858
3	A	0.29	0/1187	0.44	0/1604
3	D	0.32	1/1075 (0.1%)	0.40	0/1462
4	G	0.25	0/23	0.49	0/29
All	All	0.27	1/5158 (0.0%)	0.42	0/6991

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	D	207	PHE	C-N	6.51	1.46	1.34

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	B	773	0	758	10	0
1	E	785	0	754	11	0
2	C	636	0	619	6	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	F	621	0	606	7	0
3	A	1162	0	1158	20	0
3	D	1050	0	990	5	0
4	G	41	0	29	5	0
5	A	1	0	0	0	0
All	All	5069	0	4914	53	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 5.

All (53) 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)
4:G:759:THR:OG1	4:G:760:VAL:N	2.28	0.66
3:A:74:LEU:HD21	3:A:147:LEU:HD23	1.76	0.66
2:C:97:PRO:HB3	3:A:185:THR:HG21	1.79	0.64
3:A:115:ILE:HG13	3:A:128:ILE:HD11	1.80	0.63
3:A:127:ARG:HE	4:G:757:PTR:HD2	1.65	0.60
1:E:94:SER:OG	2:F:68:HIS:ND1	2.32	0.59
3:A:191:LEU:HD23	3:A:205:LYS:HG2	1.85	0.58
3:A:186:PHE:O	3:A:190:ASN:ND2	2.37	0.57
2:F:20:LYS:HB3	2:F:59:GLU:HG2	1.84	0.57
3:A:103:ILE:HG12	3:A:115:ILE:HG12	1.87	0.56
3:D:80:TYR:O	3:D:168:LYS:NZ	2.39	0.56
1:B:9:ARG:NE	1:B:86:GLU:OE2	2.39	0.55
1:E:99:LEU:HD21	2:F:98:GLU:HG3	1.87	0.55
3:A:96:GLU:HG3	3:A:97:PRO:HD2	1.88	0.55
3:A:201:LYS:HG2	3:A:205:LYS:NZ	2.22	0.54
2:C:19:VAL:HG11	2:C:46:LEU:HD21	1.90	0.53
1:B:69:PRO:HB3	2:C:78:THR:HG22	1.91	0.53
3:A:128:ILE:HD13	3:A:147:LEU:HD11	1.91	0.52
1:B:15:PHE:HB2	2:C:31:VAL:HG12	1.93	0.50
1:B:3:VAL:HG23	1:B:67:ALA:HB3	1.94	0.50
1:E:3:VAL:HG23	1:E:67:ALA:HB3	1.93	0.50
3:A:197:ASN:HD21	3:A:200:LEU:HD23	1.78	0.49
2:F:80:LYS:O	2:F:84:THR:OG1	2.22	0.48
3:A:201:LYS:HG2	3:A:205:LYS:HZ2	1.77	0.48
3:A:106:SER:OG	4:G:757:PTR:O2P	2.21	0.48
1:E:15:PHE:HB2	2:F:31:VAL:HG12	1.96	0.47
3:A:153:HIS:HD1	3:A:154:TYR:HD1	1.61	0.47
1:E:8:ARG:HG2	1:E:13:THR:HG23	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:183:LEU:HD13	3:A:209:PHE:N	2.29	0.47
3:D:92:LYS:HE3	3:D:92:LYS:HB2	1.71	0.46
3:A:134:LYS:HB3	3:A:143:LEU:HB3	1.97	0.45
3:A:194:ILE:HG22	3:A:196:LEU:HB2	1.98	0.45
1:B:23:THR:HA	1:B:56:THR:HA	1.99	0.45
2:F:41:THR:O	2:F:45:MET:HG2	2.16	0.45
4:G:756:GLU:C	4:G:757:PTR:HD1	2.38	0.44
1:E:24:VAL:HG13	1:E:44:LEU:HD12	1.99	0.44
3:D:101:PHE:HB3	3:D:162:LEU:HD22	2.00	0.44
3:A:100:THR:HA	3:A:164:SER:O	2.18	0.43
1:E:10:HIS:CE1	1:E:89:CYS:HB3	2.53	0.43
1:E:4:PHE:CE1	1:E:69:PRO:HG3	2.54	0.43
1:B:83:ASP:OD1	1:B:84:THR:N	2.48	0.43
1:E:37:ARG:O	1:E:42:GLN:NE2	2.51	0.42
1:B:83:ASP:OD1	1:B:83:ASP:N	2.53	0.42
1:B:24:VAL:HG13	1:B:44:LEU:HD12	2.01	0.42
1:E:23:THR:HA	1:E:56:THR:HA	2.02	0.41
2:F:97:PRO:HB3	3:D:185:THR:HG21	2.03	0.41
3:A:191:LEU:HA	3:A:191:LEU:HD12	1.77	0.41
1:B:96:PRO:HB3	2:C:99:ILE:HG22	2.04	0.40
3:D:99:GLY:HA3	3:D:163:VAL:HG12	2.02	0.40
1:B:94:SER:OG	2:C:68:HIS:ND1	2.32	0.40
1:E:10:HIS:HE1	1:E:89:CYS:HB3	1.86	0.40
3:A:88:VAL:O	3:A:92:LYS:HB2	2.21	0.40
4:G:759:THR:HG1	4:G:760:VAL:H	1.64	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	B	98/118 (83%)	94 (96%)	4 (4%)	0	<a href="#">100</a> <a href="#">100</a>

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	E	102/118 (86%)	98 (96%)	4 (4%)	0	100	100
2	C	77/96 (80%)	73 (95%)	3 (4%)	1 (1%)	12	42
2	F	75/96 (78%)	74 (99%)	1 (1%)	0	100	100
3	A	147/164 (90%)	143 (97%)	3 (2%)	1 (1%)	22	57
3	D	139/164 (85%)	133 (96%)	5 (4%)	1 (1%)	22	57
4	G	2/10 (20%)	0	2 (100%)	0	100	100
All	All	640/766 (84%)	615 (96%)	22 (3%)	3 (0%)	29	64

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	C	84	THR
3	A	61	HIS
3	D	160	LYS

### 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	B	82/103 (80%)	81 (99%)	1 (1%)	71	88
1	E	82/103 (80%)	82 (100%)	0	100	100
2	C	66/85 (78%)	65 (98%)	1 (2%)	65	85
2	F	63/85 (74%)	62 (98%)	1 (2%)	62	84
3	A	124/153 (81%)	118 (95%)	6 (5%)	25	58
3	D	107/153 (70%)	105 (98%)	2 (2%)	57	81
4	G	3/9 (33%)	1 (33%)	2 (67%)	0	0
All	All	527/691 (76%)	514 (98%)	13 (2%)	47	75

All (13) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	68	ARG
2	C	35	HIS
2	F	35	HIS
3	D	115	ILE
3	D	193	SER
3	A	92	LYS
3	A	96	GLU
3	A	112	PHE
3	A	119	THR
3	A	191	LEU
3	A	196	LEU
4	G	759	THR
4	G	760	VAL

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](#)

1 non-standard protein/DNA/RNA residue is 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$
4	PTR	G	757	4	15,16,17	1.26	1 (6%)	19,22,24	0.62	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
4	PTR	G	757	4	-	4/10/11/13	0/1/1/1

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	G	757	PTR	OH-CZ	-4.48	1.30	1.40

There are no bond angle outliers.

There are no chirality outliers.

All (4) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	G	757	PTR	CA-CB-CG-CD1
4	G	757	PTR	CA-CB-CG-CD2
4	G	757	PTR	C-CA-CB-CG
4	G	757	PTR	N-CA-CB-CG

There are no ring outliers.

1 monomer is involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	G	757	PTR	3	0

## 5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

## 5.6 Ligand geometry [i](#)

There are no ligands in this entry.

## 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

### 6.1 Protein, DNA and RNA chains

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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	B	100/118 (84%)	-0.01	2 (2%) 65 44	37, 58, 87, 99	0
1	E	104/118 (88%)	0.16	4 (3%) 40 20	43, 64, 103, 147	0
2	C	83/96 (86%)	-0.07	1 (1%) 79 61	36, 51, 70, 85	0
2	F	81/96 (84%)	-0.05	1 (1%) 79 61	40, 57, 82, 90	0
3	A	151/164 (92%)	-0.11	2 (1%) 77 59	39, 57, 77, 85	0
3	D	141/164 (85%)	0.03	6 (4%) 35 17	45, 64, 93, 104	0
4	G	4/10 (40%)	0.74	0 100 100	61, 76, 80, 82	0
All	All	664/766 (86%)	-0.00	16 (2%) 59 37	36, 59, 87, 147	0

All (16) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
3	D	194	ILE	4.3
3	D	195	PRO	3.6
1	E	103	MET	3.5
1	E	40	ASP	3.3
3	A	64	PHE	3.0
2	F	99	ILE	2.9
1	E	82	ASP	2.8
1	E	104	LYS	2.8
3	D	200	LEU	2.4
3	D	70	THR	2.4
2	C	112	CYS	2.3
3	D	196	LEU	2.3
1	B	100	PRO	2.2
3	A	117	VAL	2.0
1	B	84	THR	2.0
3	D	72	SER	2.0

## 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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
4	PTR	G	757	16/17	0.86	0.33	78,85,100,101	0

## 6.3 Carbohydrates [i](#)

There are no monosaccharides in this entry.

## 6.4 Ligands [i](#)

There are no ligands in this entry.

## 6.5 Other polymers [i](#)

There are no such residues in this entry.