



# Full wwPDB X-ray Structure Validation Report ⓘ

May 17, 2020 – 02:31 am BST

PDB ID : 4FGE  
Title : Structure of the effector protein Tse1 from *Pseudomonas aeruginosa*  
Authors : Benz, J.; Sendlmeier, C.; Barends, T.R.M.; Meinhart, A.  
Deposited on : 2012-06-04  
Resolution : 1.70 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.

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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 : 2.11  
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

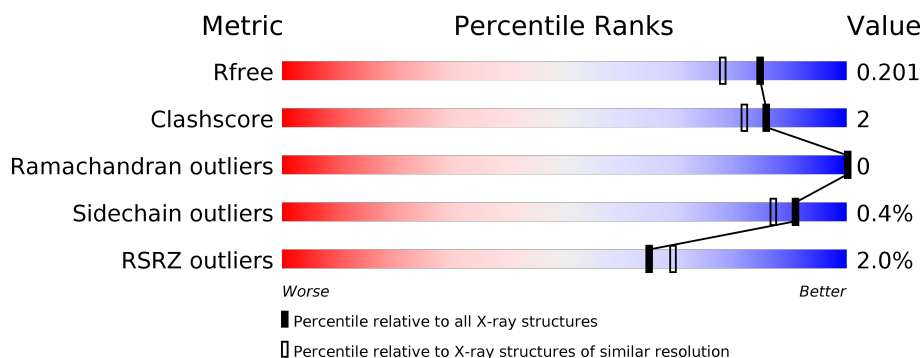
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 1.70 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	4298 (1.70-1.70)
Clashscore	141614	4695 (1.70-1.70)
Ramachandran outliers	138981	4610 (1.70-1.70)
Sidechain outliers	138945	4610 (1.70-1.70)
RSRZ outliers	127900	4222 (1.70-1.70)

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  $\geq 3$ , 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	A	165	<div> <div style="width: 100%; height: 10px; background-color: red; position: relative;"> <span style="position: absolute; top: -10px; left: 0;">%</span> </div> <div style="width: 87%; height: 10px; background-color: green; position: relative;"> <span style="position: absolute; top: -10px; left: 0;">87%</span> </div> <div style="width: 9%; height: 10px; background-color: yellow; position: relative;"> <span style="position: absolute; top: -10px; left: 0;">9%</span> </div> </div>
1	B	165	<div> <div style="width: 3%; height: 10px; background-color: red; position: relative;"> <span style="position: absolute; top: -10px; left: 0;">3%</span> </div> <div style="width: 85%; height: 10px; background-color: green; position: relative;"> <span style="position: absolute; top: -10px; left: 0;">85%</span> </div> <div style="width: 11%; height: 10px; background-color: yellow; position: relative;"> <span style="position: absolute; top: -10px; left: 0;">11%</span> </div> </div>
1	C	165	<div> <div style="width: 100%; height: 10px; background-color: red; position: relative;"> <span style="position: absolute; top: -10px; left: 0;">%</span> </div> <div style="width: 84%; height: 10px; background-color: green; position: relative;"> <span style="position: absolute; top: -10px; left: 0;">84%</span> </div> <div style="width: 7%; height: 10px; background-color: yellow; position: relative;"> <span style="position: absolute; top: -10px; left: 0;">7%</span> </div> <div style="width: 10%; height: 10px; background-color: grey; position: relative;"> <span style="position: absolute; top: -10px; left: 0;">10%</span> </div> </div>
1	D	165	<div> <div style="width: 2%; height: 10px; background-color: red; position: relative;"> <span style="position: absolute; top: -10px; left: 0;">2%</span> </div> <div style="width: 87%; height: 10px; background-color: green; position: relative;"> <span style="position: absolute; top: -10px; left: 0;">87%</span> </div> <div style="width: 10%; height: 10px; background-color: yellow; position: relative;"> <span style="position: absolute; top: -10px; left: 0;">10%</span> </div> </div>

## 2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 4869 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 Tse1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	150	Total	C	N	O	S	0	3	0
			1138	712	204	213	9			
1	B	147	Total	C	N	O	S	0	4	0
			1119	699	202	209	9			
1	C	149	Total	C	N	O	S	0	3	0
			1124	704	199	212	9			
1	D	148	Total	C	N	O	S	0	7	0
			1136	711	201	215	9			

There are 44 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	155	ALA	-	EXPRESSION TAG	UNP Q9I2Q1
A	156	ALA	-	EXPRESSION TAG	UNP Q9I2Q1
A	157	ALA	-	EXPRESSION TAG	UNP Q9I2Q1
A	158	LEU	-	EXPRESSION TAG	UNP Q9I2Q1
A	159	GLU	-	EXPRESSION TAG	UNP Q9I2Q1
A	160	HIS	-	EXPRESSION TAG	UNP Q9I2Q1
A	161	HIS	-	EXPRESSION TAG	UNP Q9I2Q1
A	162	HIS	-	EXPRESSION TAG	UNP Q9I2Q1
A	163	HIS	-	EXPRESSION TAG	UNP Q9I2Q1
A	164	HIS	-	EXPRESSION TAG	UNP Q9I2Q1
A	165	HIS	-	EXPRESSION TAG	UNP Q9I2Q1
B	155	ALA	-	EXPRESSION TAG	UNP Q9I2Q1
B	156	ALA	-	EXPRESSION TAG	UNP Q9I2Q1
B	157	ALA	-	EXPRESSION TAG	UNP Q9I2Q1
B	158	LEU	-	EXPRESSION TAG	UNP Q9I2Q1
B	159	GLU	-	EXPRESSION TAG	UNP Q9I2Q1
B	160	HIS	-	EXPRESSION TAG	UNP Q9I2Q1
B	161	HIS	-	EXPRESSION TAG	UNP Q9I2Q1
B	162	HIS	-	EXPRESSION TAG	UNP Q9I2Q1
B	163	HIS	-	EXPRESSION TAG	UNP Q9I2Q1
B	164	HIS	-	EXPRESSION TAG	UNP Q9I2Q1

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Chain	Residue	Modelled	Actual	Comment	Reference
B	165	HIS	-	EXPRESSION TAG	UNP Q9I2Q1
C	155	ALA	-	EXPRESSION TAG	UNP Q9I2Q1
C	156	ALA	-	EXPRESSION TAG	UNP Q9I2Q1
C	157	ALA	-	EXPRESSION TAG	UNP Q9I2Q1
C	158	LEU	-	EXPRESSION TAG	UNP Q9I2Q1
C	159	GLU	-	EXPRESSION TAG	UNP Q9I2Q1
C	160	HIS	-	EXPRESSION TAG	UNP Q9I2Q1
C	161	HIS	-	EXPRESSION TAG	UNP Q9I2Q1
C	162	HIS	-	EXPRESSION TAG	UNP Q9I2Q1
C	163	HIS	-	EXPRESSION TAG	UNP Q9I2Q1
C	164	HIS	-	EXPRESSION TAG	UNP Q9I2Q1
C	165	HIS	-	EXPRESSION TAG	UNP Q9I2Q1
D	155	ALA	-	EXPRESSION TAG	UNP Q9I2Q1
D	156	ALA	-	EXPRESSION TAG	UNP Q9I2Q1
D	157	ALA	-	EXPRESSION TAG	UNP Q9I2Q1
D	158	LEU	-	EXPRESSION TAG	UNP Q9I2Q1
D	159	GLU	-	EXPRESSION TAG	UNP Q9I2Q1
D	160	HIS	-	EXPRESSION TAG	UNP Q9I2Q1
D	161	HIS	-	EXPRESSION TAG	UNP Q9I2Q1
D	162	HIS	-	EXPRESSION TAG	UNP Q9I2Q1
D	163	HIS	-	EXPRESSION TAG	UNP Q9I2Q1
D	164	HIS	-	EXPRESSION TAG	UNP Q9I2Q1
D	165	HIS	-	EXPRESSION TAG	UNP Q9I2Q1

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

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

- Molecule 3 is THIOCYANATE ION (three-letter code: SCN) (formula: CNS).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	N	S	0	0
			3	1	1	1		
3	B	1	Total	C	N	S	0	0
			3	1	1	1		

- Molecule 4 is GLYCEROL (three-letter code: GOL) (formula: C<sub>3</sub>H<sub>8</sub>O<sub>3</sub>).



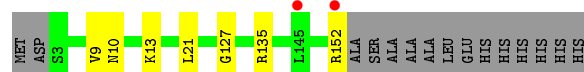
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	B	1	Total	C	O	0	0
			6	3	3		
4	D	1	Total	C	O	0	0
			6	3	3		

- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	101	Total 101	O 101	0	0
5	B	69	Total 69	O 69	0	0
5	C	98	Total 98	O 98	0	0
5	D	62	Total 62	O 62	0	0



- Molecule 1: Tse1



MET	ASP	S3	C12	R47	G48	N49	A50	Y89	M107	G108	W109	S125	R132	L145	A146	S149	LEU	PRO	ARG	ALA	SER	ALA	ALA	ALA	LEU	GLU	HIS	HIS	HIS	HIS	HIS	HIS
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MET	ASP	S3	V9	K13	W16	L21	K73	R87	T88	R102	Q119	R135	V142	P151	ARG	ALA	SER	ALA	ALA	ALA	ALA	LEU	GLU	HIS	HIS	HIS	HIS	HIS	HIS
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[illegible]

## 4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	48.24Å 100.38Å 62.18Å 90.00° 99.35° 90.00°	Depositor
Resolution (Å)	47.62 – 1.70 47.60 – 1.70	Depositor EDS
% Data completeness (in resolution range)	100.0 (47.62-1.70) 98.4 (47.60-1.70)	Depositor EDS
$R_{merge}$	0.05	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	2.60 (at 1.70Å)	Xtriage
Refinement program	REFMAC 5.2.0019	Depositor
R, $R_{free}$	0.175 , 0.203 0.173 , 0.201	Depositor DCC
$R_{free}$ test set	3158 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	23.6	Xtriage
Anisotropy	0.176	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.35 , 45.5	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.48$ , $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.97	EDS
Total number of atoms	4869	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	31.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.44% 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: GOL, SCN, 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	0.41	0/1167	0.50	0/1580
1	B	0.40	0/1153	0.49	0/1560
1	C	0.45	0/1156	0.51	0/1567
1	D	0.46	0/1179	0.55	2/1596 (0.1%)
All	All	0.43	0/4655	0.51	2/6303 (0.0%)

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	D	87[A]	ARG	NE-CZ-NH2	-5.11	117.75	120.30
1	D	87[B]	ARG	NE-CZ-NH2	-5.11	117.75	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	1138	0	1129	7	0
1	B	1119	0	1112	4	0
1	C	1124	0	1112	7	0
1	D	1136	0	1132	2	0
2	A	2	0	0	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	C	2	0	0	0	0
3	A	3	0	0	0	0
3	B	3	0	0	0	0
4	B	6	0	8	2	0
4	D	6	0	8	1	0
5	A	101	0	0	2	0
5	B	69	0	0	0	0
5	C	98	0	0	2	0
5	D	62	0	0	0	0
All	All	4869	0	4501	20	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 2.

All (20) 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:127:GLY:HA2	1:A:135:ARG:HG2	1.59	0.85
2:A:201:CL:CL	5:A:305:HOH:O	2.36	0.79
1:C:73:LYS:HE2	1:C:142:VAL:HG21	1.78	0.64
1:B:50:ALA:H	4:B:202:GOL:H31	1.73	0.54
1:A:9:VAL:HG12	1:A:13[B]:LYS:HE2	1.92	0.52
1:A:13[A]:LYS:HE2	5:A:377:HOH:O	2.10	0.52
1:A:10:ASN:HA	1:A:13[B]:LYS:HE3	1.93	0.49
1:B:49:ASN:HB2	4:B:202:GOL:C3	2.43	0.49
1:C:88:THR:HG22	5:C:366:HOH:O	2.13	0.48
1:A:127:GLY:O	1:A:135:ARG:HD2	2.14	0.47
1:D:29:ASN:OD1	4:D:201:GOL:H31	2.13	0.47
1:C:3:SER:N	5:C:381:HOH:O	2.48	0.46
1:C:9:VAL:HG12	1:C:13:LYS:HE2	1.97	0.46
1:D:16:TRP:HH2	1:D:119:GLN:HB3	1.81	0.46
1:C:16:TRP:HH2	1:C:119:GLN:HB3	1.81	0.46
1:A:127:GLY:HA2	1:A:135:ARG:CG	2.39	0.42
1:B:107:MET:HA	1:B:125:SER:HA	2.02	0.42
1:C:102:ARG:HH21	1:C:135:ARG:HH22	1.68	0.41
1:A:21:LEU:HD22	1:C:21:LEU:HD22	2.02	0.40
1:B:12:CYS:HB3	1:B:109:TRP:CD2	2.57	0.40

There are no symmetry-related clashes.

## 5.3 Torsion angles

### 5.3.1 Protein backbone

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	151/165 (92%)	147 (97%)	4 (3%)	0	100	100
1	B	149/165 (90%)	145 (97%)	4 (3%)	0	100	100
1	C	150/165 (91%)	147 (98%)	3 (2%)	0	100	100
1	D	153/165 (93%)	149 (97%)	4 (3%)	0	100	100
All	All	603/660 (91%)	588 (98%)	15 (2%)	0	100	100

There are no Ramachandran outliers to report.

### 5.3.2 Protein sidechains

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	120/128 (94%)	119 (99%)	1 (1%)	81	74
1	B	118/128 (92%)	118 (100%)	0	100	100
1	C	119/128 (93%)	119 (100%)	0	100	100
1	D	122/128 (95%)	121 (99%)	1 (1%)	81	74
All	All	479/512 (94%)	477 (100%)	2 (0%)	91	87

All (2) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	152	ARG
1	D	21	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

Mol	Chain	Res	Type
1	C	6	GLN
1	D	6	GLN
1	D	103	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](#)

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 8 ligands modelled in this entry, 4 are monoatomic - leaving 4 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	SCN	B	201	-	1,2,2	0.17	0	0,1,1	0.00	-
4	GOL	B	202	-	5,5,5	0.38	0	5,5,5	0.46	0
4	GOL	D	201	-	5,5,5	0.39	0	5,5,5	0.34	0
3	SCN	A	203	-	1,2,2	0.18	0	0,1,1	0.00	-

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	GOL	B	202	-	-	4/4/4/4	-
4	GOL	D	201	-	-	1/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (5) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	B	202	GOL	C1-C2-C3-O3
4	B	202	GOL	O1-C1-C2-O2
4	B	202	GOL	O1-C1-C2-C3
4	D	201	GOL	C1-C2-C3-O3
4	B	202	GOL	O2-C2-C3-O3

There are no ring outliers.

2 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	B	202	GOL	2	0
4	D	201	GOL	1	0

## 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	A	150/165 (90%)	-0.05	2 (1%) 77 81	14, 26, 47, 58	0
1	B	147/165 (89%)	-0.11	5 (3%) 45 50	17, 32, 49, 54	0
1	C	149/165 (90%)	-0.10	1 (0%) 87 90	13, 24, 39, 54	0
1	D	148/165 (89%)	-0.06	4 (2%) 54 58	17, 33, 52, 61	0
All	All	594/660 (90%)	-0.08	12 (2%) 65 69	13, 28, 50, 61	0

All (12) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	145	LEU	4.8
1	A	145	LEU	4.0
1	B	145	LEU	3.6
1	B	89	TYR	3.3
1	D	103	GLN	3.2
1	C	87	ARG	3.0
1	B	47[A]	ARG	2.9
1	D	150	LEU	2.7
1	B	146	ALA	2.2
1	A	152	ARG	2.1
1	D	132	ARG	2.1
1	B	132	ARG	2.0

### 6.2 Non-standard residues in protein, DNA, RNA chains ⓘ

There are no non-standard protein/DNA/RNA residues in this entry.

### 6.3 Carbohydrates ⓘ

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, 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( $\text{\AA}^2$ )	Q<0.9
4	GOL	B	202	6/6	0.77	0.26	52,53,53,54	0
3	SCN	A	203	3/3	0.81	0.14	22,22,23,27	0
4	GOL	D	201	6/6	0.83	0.19	61,62,62,63	0
3	SCN	B	201	3/3	0.90	0.12	29,29,29,29	0
2	CL	A	202	1/1	0.94	0.19	59,59,59,59	0
2	CL	C	201[A]	1/1	0.98	0.19	18,18,18,18	1
2	CL	C	201[B]	1/1	0.98	0.19	34,34,34,34	1
2	CL	A	201	1/1	0.99	0.03	32,32,32,32	0

## 6.5 Other polymers [i](#)

There are no such residues in this entry.