



Full wwPDB X-ray Structure Validation Report ⓘ

Nov 16, 2024 – 06:35 PM EST

PDB ID : 3TF6
Title : Crystal structure of Neutrophil gelatinase-associated lipocalin (C87S mutant) in complex with Europium and the siderophore analog tren(cam)(1,2-hopo)2
Authors : Seattle Structural Genomics Center for Infectious Disease (SSGCID)
Deposited on : 2011-08-15
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

<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	:	4.02b-467
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	1.20.1
EDS	:	3.0
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4	:	9.0.003 (Gargrove)
Density-Fitness	:	1.0.11
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.39

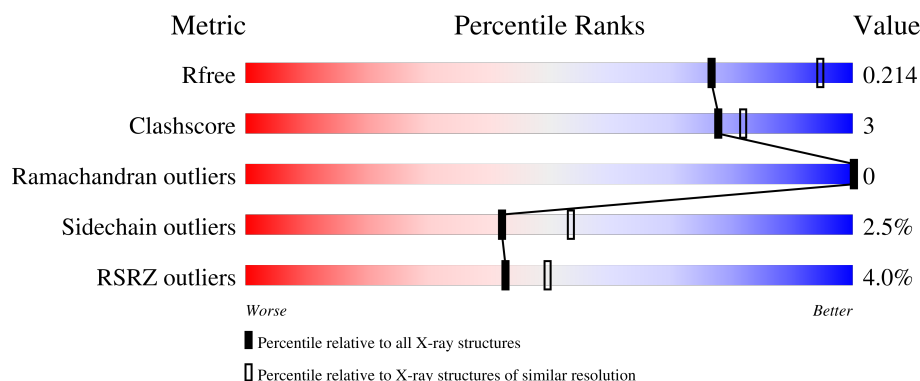
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

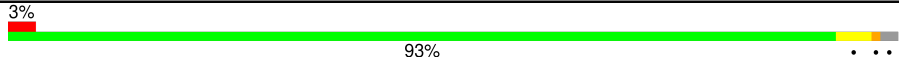
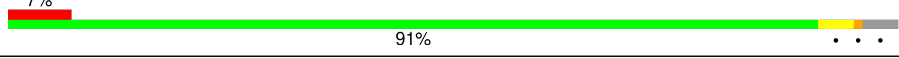
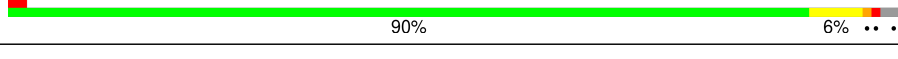
The reported resolution of this entry is 2.35 Å.

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}	164625	1460 (2.36-2.36)
Clashscore	180529	1571 (2.36-2.36)
Ramachandran outliers	177936	1559 (2.36-2.36)
Sidechain outliers	177891	1559 (2.36-2.36)
RSRZ outliers	164620	1460 (2.36-2.36)

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	179	
1	B	179	
1	C	179	

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
5	SO4	B	221	-	-	X	-
5	SO4	C	221	-	-	X	-

2 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 4300 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 Neutrophil gelatinase-associated lipocalin.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	176	Total	C	N	O	S	0	2	0
			1390	905	228	253	4			
1	B	171	Total	C	N	O	S	0	0	0
			1333	868	221	240	4			
1	C	173	Total	C	N	O	S	0	3	0
			1383	899	229	251	4			

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	0	GLY	-	expression tag	UNP P80188
A	87	SER	CYS	engineered mutation	UNP P80188
B	0	GLY	-	expression tag	UNP P80188
B	87	SER	CYS	engineered mutation	UNP P80188
C	0	GLY	-	expression tag	UNP P80188
C	87	SER	CYS	engineered mutation	UNP P80188

- Molecule 2 is GLYCEROL (three-letter code: GOL) (formula: C₃H₈O₃).

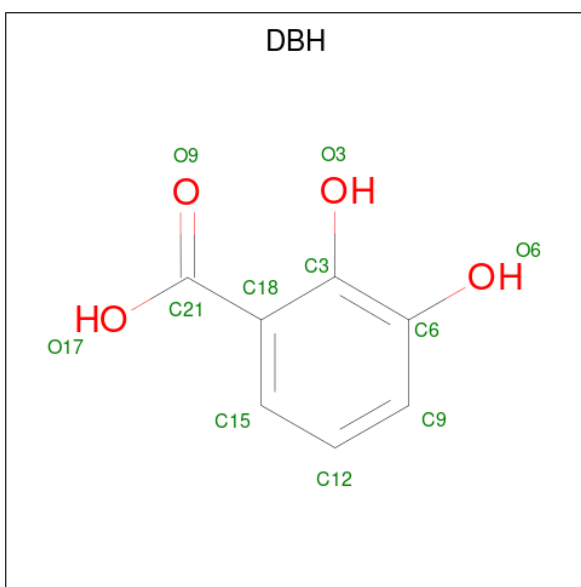


Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	C	O	0	0
			6	3	3		
2	C	1	Total	C	O	0	0
			6	3	3		
2	C	1	Total	C	O	0	0
			6	3	3		
2	C	1	Total	C	O	0	0
			6	3	3		

- Molecule 3 is EUROPIUM ION (three-letter code: EU) (formula: Eu).

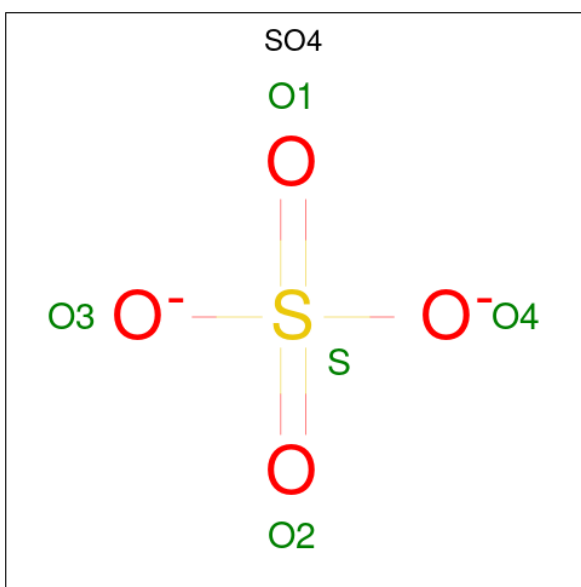
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	1	Total	Eu	0	0
			1	1		
3	B	1	Total	Eu	0	0
			1	1		
3	C	1	Total	Eu	0	0
			1	1		

- Molecule 4 is 2,3-DIHYDROXY-BENZOIC ACID (three-letter code: DBH) (formula: C₇H₆O₄).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total	C	O	0	0
			10	7	3		
4	B	1	Total	C	O	0	0
			10	7	3		
4	C	1	Total	C	O	0	0
			10	7	3		

- Molecule 5 is SULFATE ION (three-letter code: SO4) (formula: O₄S).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	A	1	Total	O	S	0	0
			5	4	1		

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

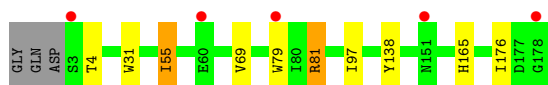
- Molecule 6 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

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

- Molecule 7 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	A	45	Total	O	0	0
			45	45		
7	B	15	Total	O	0	0
			15	15		
7	C	57	Total	O	0	0
			57	57		

- Molecule 1: Neutrophil gelatinase-associated lipocalin



- GLY
 GLN
 ASP
 SER
 THR
 S5
 W31
 E44
 D45
 LYS
 ASP
 P48
 E60
 V69
 D77
 Y78
 W79
 R80
 R81
 S87
 S105
 M120
 T136
 L137
 Y138
 F143
 S146
 L176
 D177
 GLY

- GLY
GLN
ASP
SER
THR
S5
W31
D47
K59
S63
W79
R80
R81
R96
I97
S105
N114
F123
Y138
E143
N151
D177
GLY

4 Data and refinement statistics

Property	Value	Source
Space group	P 41 21 2	Depositor
Cell constants a, b, c, α , β , γ	114.09Å 114.09Å 118.19Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	46.95 – 2.35 46.95 – 2.35	Depositor EDS
% Data completeness (in resolution range)	99.6 (46.95-2.35) 99.6 (46.95-2.35)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	5.13 (at 2.34Å)	Xtriage
Refinement program	REFMAC 5.6.0117	Depositor
R, R_{free}	0.191 , 0.216 0.192 , 0.214	Depositor DCC
R_{free} test set	3130 reflections (9.49%)	wwPDB-VP
Wilson B-factor (Å ²)	38.5	Xtriage
Anisotropy	0.046	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 39.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	0.019 for -h,l,k 0.010 for -l,-k,-h	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	4300	wwPDB-VP
Average B, all atoms (Å ²)	38.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.89% 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: EU, CL, SO4, DBH, GOL

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	0.64	1/1433 (0.1%)	0.62	0/1950
1	B	0.54	0/1367	0.58	0/1858
1	C	0.71	1/1429 (0.1%)	0.64	0/1945
All	All	0.63	2/4229 (0.0%)	0.61	0/5753

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	79	TRP	CD2-CE2	6.53	1.49	1.41
1	A	79	TRP	CD2-CE2	5.01	1.47	1.41

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	1390	0	1351	5	0
1	B	1333	0	1288	4	0
1	C	1383	0	1338	13	0
2	A	6	0	8	1	0
2	C	18	0	24	4	0
3	A	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	B	1	0	0	0	0
3	C	1	0	0	0	0
4	A	10	0	3	0	0
4	B	10	0	4	0	0
4	C	10	0	4	0	0
5	A	5	0	0	1	0
5	B	5	0	0	2	0
5	C	5	0	0	2	0
6	A	1	0	0	0	0
6	B	1	0	0	0	0
6	C	3	0	0	0	0
7	A	45	0	0	0	0
7	B	15	0	0	0	0
7	C	57	0	0	0	1
All	All	4300	0	4020	22	1

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 3.

All (22) 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:79:TRP:CZ2	1:C:81:ARG:HD2	2.03	0.93
1:A:81:ARG:NH2	5:A:221:SO4:O4	2.14	0.80
1:C:79:TRP:CH2	1:C:81:ARG:HD2	2.26	0.71
1:C:81:ARG:NH2	5:C:221:SO4:O4	2.28	0.67
1:C:79:TRP:CE2	1:C:81:ARG:HD2	2.38	0.58
1:C:123:PHE:CZ	5:C:221:SO4:O2	2.55	0.58
1:C:114:ASN:HD22	2:C:184:GOL:H32	1.70	0.55
1:C:97:ILE:HD12	2:C:183:GOL:C1	2.37	0.54
1:C:59:LYS:HE3	1:C:63:SER:OG	2.09	0.52
1:B:69:VAL:HG13	1:B:176:ILE:HG22	1.92	0.51
1:C:79:TRP:CE2	1:C:81:ARG:CD	2.94	0.50
1:C:105:SER:HA	2:C:183:GOL:H32	1.92	0.50
1:B:81:ARG:NH2	5:B:221:SO4:O4	2.45	0.48
1:A:165:HIS:NE2	2:A:201:GOL:H2	2.29	0.47
1:C:79:TRP:CZ2	1:C:81:ARG:CD	2.89	0.46
1:C:97:ILE:HD12	2:C:183:GOL:H11	1.98	0.44
1:B:31:TRP:CE3	1:B:138:TYR:HB3	2.52	0.44
1:C:31:TRP:CE3	1:C:138:TYR:HB3	2.54	0.43
1:A:55:ILE:HD12	1:A:55:ILE:N	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:31:TRP:CE3	1:A:138:TYR:HB3	2.55	0.41
1:A:69:VAL:HG13	1:A:176:ILE:HG22	2.02	0.41
1:B:136:THR:HG21	5:B:221:SO4:O2	2.21	0.41

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:C:240:HOH:O	7:C:240:HOH:O[7_556]	2.18	0.02

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	176/179 (98%)	173 (98%)	3 (2%)	0	100	100
1	B	167/179 (93%)	163 (98%)	4 (2%)	0	100	100
1	C	174/179 (97%)	170 (98%)	4 (2%)	0	100	100
All	All	517/537 (96%)	506 (98%)	11 (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	150/163 (92%)	146 (97%)	4 (3%)	40	50
1	B	141/163 (86%)	138 (98%)	3 (2%)	48	61
1	C	149/163 (91%)	145 (97%)	4 (3%)	40	50
All	All	440/489 (90%)	429 (98%)	11 (2%)	42	53

All (11) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	4	THR
1	A	55	ILE
1	A	81	ARG
1	A	97	ILE
1	B	81	ARG
1	B	105	SER
1	B	120	MET
1	C	79	TRP
1	C	81	ARG
1	C	143	GLU
1	C	151	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	65	ASN
1	B	88	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry

Of 18 ligands modelled in this entry, 8 are monoatomic - leaving 10 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
5	SO4	A	221	-	4,4,4	0.52	0	6,6,6	0.29	0
2	GOL	C	183	-	5,5,5	0.48	0	5,5,5	0.47	0
5	SO4	B	221	-	4,4,4	0.39	0	6,6,6	0.26	0
2	GOL	C	184	-	5,5,5	0.42	0	5,5,5	0.36	0
5	SO4	C	221	-	4,4,4	0.51	0	6,6,6	0.54	0
2	GOL	A	201	-	5,5,5	0.40	0	5,5,5	0.37	0
2	GOL	C	201	-	5,5,5	0.41	0	5,5,5	0.67	0
4	DBH	A	216	3	10,10,11	1.14	0	13,13,15	1.03	0
4	DBH	B	216	3	10,10,11	1.32	1 (10%)	13,13,15	1.41	2 (15%)
4	DBH	C	216	3	10,10,11	1.33	1 (10%)	13,13,15	1.31	1 (7%)

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
2	GOL	C	183	-	-	2/4/4/4	-
2	GOL	C	184	-	-	4/4/4/4	-
2	GOL	A	201	-	-	3/4/4/4	-
2	GOL	C	201	-	-	0/4/4/4	-
4	DBH	A	216	3	-	2/2/2/4	0/1/1/1
4	DBH	B	216	3	-	2/2/2/4	0/1/1/1
4	DBH	C	216	3	-	2/2/2/4	0/1/1/1

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	B	216	DBH	O17-C21	-3.73	1.25	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	C	216	DBH	O17-C21	-3.67	1.25	1.41

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	C	216	DBH	O17-C21-C18	3.89	122.80	111.94
4	B	216	DBH	O17-C21-C18	3.62	122.05	111.94
4	B	216	DBH	C9-C6-C3	-2.42	117.58	120.09

There are no chirality outliers.

All (15) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	C	183	GOL	O1-C1-C2-O2
2	C	183	GOL	O1-C1-C2-C3
2	C	184	GOL	O1-C1-C2-C3
2	C	184	GOL	O2-C2-C3-O3
4	A	216	DBH	C15-C18-C21-O9
4	A	216	DBH	C3-C18-C21-O9
4	C	216	DBH	C3-C18-C21-O17
4	C	216	DBH	C15-C18-C21-O17
2	C	184	GOL	C1-C2-C3-O3
2	C	184	GOL	O1-C1-C2-O2
2	A	201	GOL	O1-C1-C2-O2
4	B	216	DBH	C3-C18-C21-O17
2	A	201	GOL	O2-C2-C3-O3
2	A	201	GOL	O1-C1-C2-C3
4	B	216	DBH	C15-C18-C21-O17

There are no ring outliers.

6 monomers are involved in 10 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	A	221	SO4	1	0
2	C	183	GOL	3	0
5	B	221	SO4	2	0
2	C	184	GOL	1	0
5	C	221	SO4	2	0
2	A	201	GOL	1	0

5.7 Other polymers

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 ⓘ

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, 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	176/179 (98%)	-0.06	5 (2%) 55 61	21, 33, 52, 71	2 (1%)
1	B	171/179 (95%)	0.58	12 (7%) 24 28	31, 49, 70, 89	0
1	C	173/179 (96%)	-0.30	4 (2%) 61 66	14, 26, 46, 73	3 (1%)
All	All	520/537 (96%)	0.07	21 (4%) 43 50	14, 36, 64, 89	5 (0%)

All (21) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	45	ASP	8.3
1	C	5	SER	7.4
1	B	48	PRO	5.4
1	A	79	TRP	4.8
1	B	80	ILE	4.3
1	B	5	SER	4.3
1	A	3	SER	3.8
1	B	60	GLU	3.6
1	C	79	TRP	3.3
1	B	146	SER	3.2
1	B	177	ASP	3.2
1	B	79	TRP	3.1
1	B	44	GLU	2.7
1	A	178	GLY	2.6
1	B	77	ASP	2.6
1	B	143	GLU	2.4
1	A	60	GLU	2.2
1	C	47	ASP	2.2
1	B	87	SER	2.1
1	A	151	ASN	2.0
1	C	96	ASN	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(\AA^2)	Q<0.9
2	GOL	C	184	6/6	0.74	0.19	58,62,65,66	0
2	GOL	A	201	6/6	0.76	0.23	55,55,58,59	0
4	DBH	B	216	10/11	0.79	0.21	53,65,71,79	0
2	GOL	C	201	6/6	0.80	0.21	50,52,57,58	0
4	DBH	C	216	10/11	0.80	0.14	42,49,54,68	0
2	GOL	C	183	6/6	0.82	0.17	31,41,42,53	0
4	DBH	A	216	10/11	0.83	0.14	45,52,59,67	0
6	CL	B	183	1/1	0.86	0.25	70,70,70,70	0
5	SO4	C	221	5/5	0.88	0.28	37,49,60,68	0
5	SO4	B	221	5/5	0.88	0.22	40,42,47,50	5
3	EU	C	206	1/1	0.91	0.13	83,83,83,83	1
3	EU	A	206	1/1	0.92	0.09	65,65,65,65	1
3	EU	B	206	1/1	0.92	0.09	78,78,78,78	1
5	SO4	A	221	5/5	0.92	0.24	44,57,70,71	0
6	CL	C	187	1/1	0.93	0.21	75,75,75,75	0
6	CL	C	186	1/1	0.94	0.10	58,58,58,58	0
6	CL	A	183	1/1	0.95	0.11	62,62,62,62	0
6	CL	C	185	1/1	0.95	0.11	57,57,57,57	0

6.5 Other polymers [i](#)

There are no such residues in this entry.