



# Full wwPDB X-ray Structure Validation Report ⓘ

Aug 8, 2020 – 02:32 AM BST

PDB ID : 5A2I  
Title : Crystal structure of scFv-SM3 in complex with APD-SGalNAc-RP  
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Deposited on : 2015-05-20  
Resolution : 1.88 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 : 2.13.1  
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) : 2.13.1

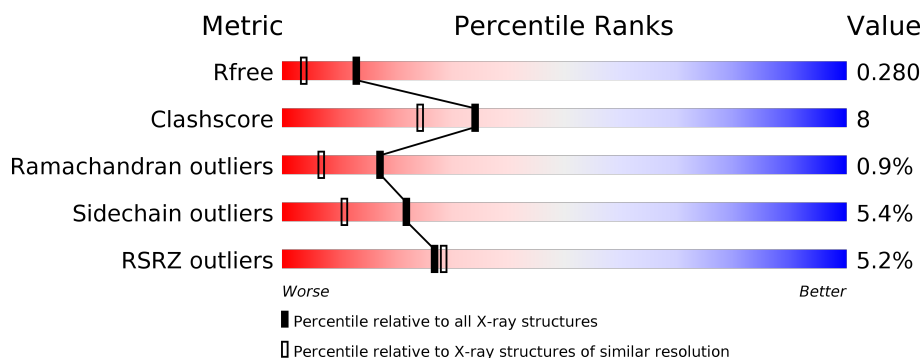
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

## *X-RAY DIFFRACTION*

The reported resolution of this entry is 1.88 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	9470 (1.90-1.86)
Clashscore	141614	10282 (1.90-1.86)
Ramachandran outliers	138981	10152 (1.90-1.86)
Sidechain outliers	138945	10152 (1.90-1.86)
RSRZ outliers	127900	9303 (1.90-1.86)

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	H	244	<div> <div>5%</div> <div> <div></div> <div>75%</div> <div>13%</div> <div>8%</div> </div> </div>
2	P	6	<div> <div>67%</div> <div>17%</div> <div>17%</div> </div>

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	EDO	H	3113	-	-	X	-

## 2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 1838 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 IG LAMBDA-1 CHAIN V REGION S43.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	H	224	Total	C	N	O	S	0	2	0
			1711	1078	290	336	7			

There are 33 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
H	1	GLN	-	cloning artifact	UNP P01801
H	2	VAL	-	cloning artifact	UNP P01801
H	3	GLN	-	cloning artifact	UNP P01801
H	4	LEU	-	cloning artifact	UNP P01801
H	5	GLN	-	cloning artifact	UNP P01801
H	94	GLY	-	insertion	UNP P01801
H	95	VAL	-	insertion	UNP P01801
H	96	GLY	-	insertion	UNP P01801
H	97	GLN	-	insertion	UNP P01801
H	?	-	THR	deletion	UNP P01801
H	?	-	GLY	deletion	UNP P01801
H	108	THR	LEU	conflict	UNP P01801
H	114	SER	-	linker	UNP P01801
H	115	SER	-	linker	UNP P01801
H	116	GLY	-	linker	UNP P01801
H	117	GLY	-	linker	UNP P01801
H	118	GLY	-	linker	UNP P01801
H	119	GLY	-	linker	UNP P01801
H	120	SER	-	linker	UNP P01801
H	121	GLY	-	linker	UNP P01801
H	122	GLY	-	linker	UNP P01801
H	123	GLY	-	linker	UNP P01801
H	124	GLY	-	linker	UNP P01801
H	125	GLY	-	linker	UNP P01801
H	126	SER	-	linker	UNP P01801
H	127	SER	-	linker	UNP P01801
H	128	GLY	-	linker	UNP P01801

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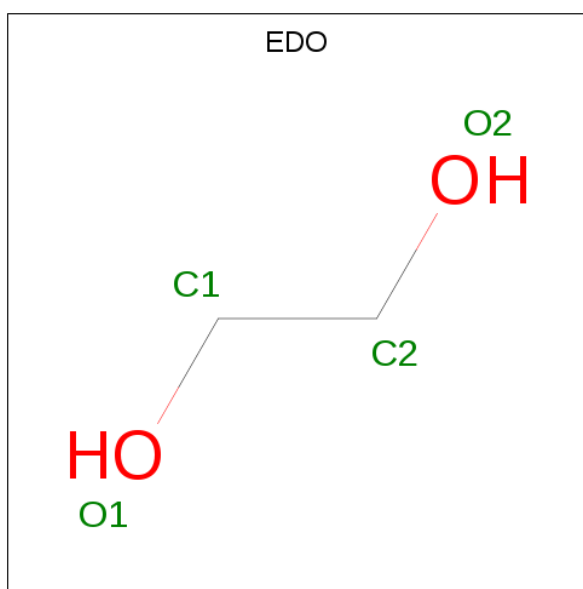
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Chain	Residue	Modelled	Actual	Comment	Reference
H	129	SER	-	linker	UNP P01801
H	130	SER	-	linker	UNP P01801
H	1002	ASP	GLN	conflict	UNP P01727
H	1003	ILE	ALA	conflict	UNP P01727
H	1078	ALA	THR	conflict	UNP P01727
H	1085	ILE	MET	conflict	UNP P01727

- Molecule 2 is a protein called ANTIGEN TN, SER IS COVALENTLY BOUND TO GALNAC.

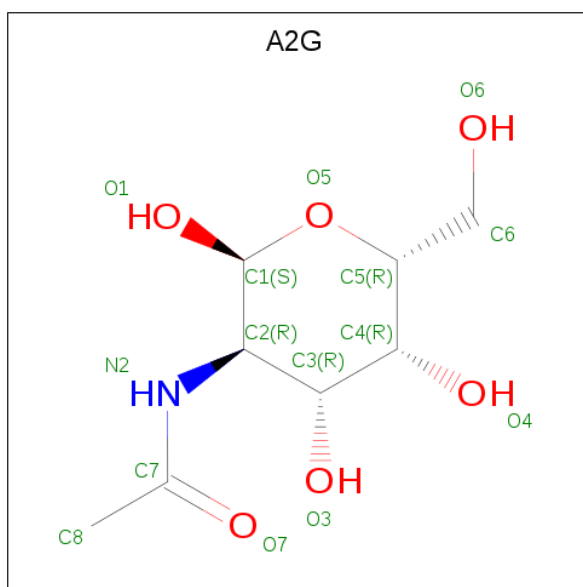
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
2	P	6	Total	C	N	O	0	0	0
			44	26	9	9			

- Molecule 3 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: C<sub>2</sub>H<sub>6</sub>O<sub>2</sub>).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	H	1	Total	C	O	0	0
			4	2	2		
3	H	1	Total	C	O	0	0
			4	2	2		

- Molecule 4 is 2-acetamido-2-deoxy- $\alpha$ -D-galactopyranose (three-letter code: A2G) (formula: C<sub>8</sub>H<sub>15</sub>NO<sub>6</sub>).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	P	1	Total	C	N	O	0	0
			14	8	1	5		

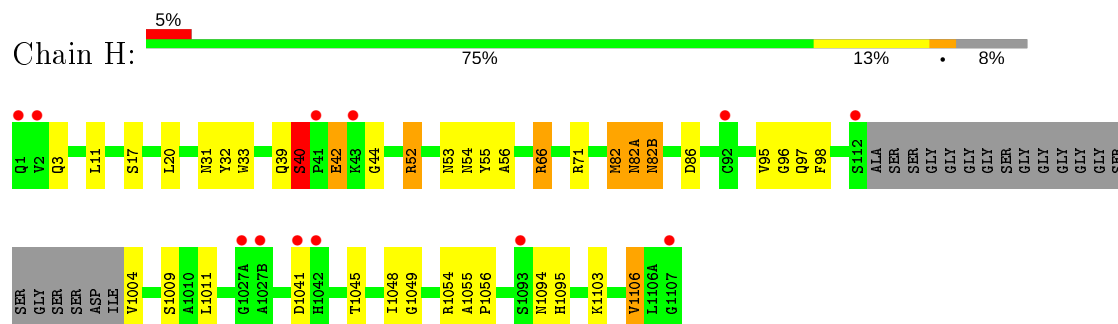
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	H	59	Total	O	0	0
			59	59		
5	P	2	Total	O	0	0
			2	2		

### 3 Residue-property plots

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: IG LAMBDA-1 CHAIN V REGION S43



- Molecule 2: ANTIGEN TN, SER IS COVALENTLY BOUND TO GALNAC



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	33.18Å 66.01Å 90.29Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	90.29 – 1.88 19.78 – 1.88	Depositor EDS
% Data completeness (in resolution range)	98.9 (90.29-1.88) 99.0 (19.78-1.88)	Depositor EDS
$R_{merge}$	0.08	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	2.81 (at 1.87Å)	Xtriage
Refinement program	REFMAC 5.8.0049	Depositor
R, $R_{free}$	0.206 , 0.261 0.222 , 0.280	Depositor DCC
$R_{free}$ test set	484 reflections (2.90%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	27.1	Xtriage
Anisotropy	0.937	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.38 , 51.7	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.48$ , $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.95	EDS
Total number of atoms	1838	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	36.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.63% 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

### 5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: EDO, A2G

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	H	1.00	5/1756 (0.3%)	0.98	8/2389 (0.3%)
2	P	0.74	0/45	0.79	0/61
All	All	0.99	5/1801 (0.3%)	0.97	8/2450 (0.3%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	H	0	3

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	82(A)	ASN	C-N	13.59	1.65	1.34
1	H	82	MET	C-N	12.36	1.62	1.34
1	H	82(B)	ASN	C-N	9.54	1.55	1.34
1	H	98	PHE	C-N	8.67	1.53	1.34
1	H	1106	VAL	C-N	8.40	1.53	1.34

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	1106	VAL	O-C-N	-10.96	105.17	122.70
1	H	66	ARG	NE-CZ-NH2	-10.09	115.26	120.30
1	H	66	ARG	NE-CZ-NH1	8.97	124.79	120.30
1	H	1054	ARG	NE-CZ-NH1	7.96	124.28	120.30
1	H	1054	ARG	NE-CZ-NH2	-6.41	117.10	120.30
1	H	1106	VAL	CA-C-N	6.29	131.04	117.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	1041	ASP	N-CA-C	-5.66	95.73	111.00
1	H	82(B)	ASN	O-C-N	-5.20	114.39	122.70

There are no chirality outliers.

All (3) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	H	1106	VAL	Mainchain
1	H	82(A)	ASN	Mainchain
1	H	82(B)	ASN	Mainchain

## 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	H	1711	0	1643	23	0
2	P	44	0	42	11	0
3	H	8	0	12	9	0
4	P	14	0	12	1	0
5	H	59	0	0	1	3
5	P	2	0	0	0	0
All	All	1838	0	1709	29	3

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 (29) 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:H:39:GLN:O	1:H:40:SER:HB3	1.75	0.86
1:H:31:ASN:HB3	3:H:3113:EDO:H22	1.68	0.75
1:H:39:GLN:O	1:H:40:SER:CB	2.40	0.61
1:H:31:ASN:CB	3:H:3113:EDO:H22	2.32	0.60
3:H:3113:EDO:H11	2:P:5:ARG:HD2	1.89	0.54
1:H:32:TYR:CZ	2:P:5:ARG:NH1	2.76	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:31:ASN:HB3	2:P:5:ARG:NH1	2.25	0.52
1:H:55:TYR:CD1	1:H:71:ARG:HD3	2.45	0.51
1:H:66:ARG:NH2	1:H:86:ASP:OD2	2.35	0.51
3:H:3113:EDO:C1	2:P:5:ARG:HD2	2.40	0.51
1:H:53:ASN:O	1:H:54:ASN:HB2	2.12	0.49
1:H:39:GLN:O	1:H:44:GLY:O	2.30	0.49
1:H:52:ARG:HG2	1:H:56:ALA:O	2.12	0.49
3:H:3113:EDO:H11	2:P:5:ARG:CD	2.44	0.48
1:H:1009:SER:HB3	3:H:3108:EDO:H22	1.95	0.48
1:H:31:ASN:HB3	2:P:5:ARG:HH11	1.79	0.47
3:H:3113:EDO:H22	2:P:5:ARG:HD2	1.97	0.47
3:H:3113:EDO:O1	2:P:5:ARG:NE	2.49	0.46
1:H:96:GLY:N	1:H:97:GLN:HA	2.31	0.46
1:H:42:GLU:CD	1:H:42:GLU:H	2.19	0.46
1:H:20:LEU:HD11	1:H:82:MET:HE1	1.99	0.45
1:H:1048:ILE:HG22	1:H:1049:GLY:N	2.33	0.44
1:H:1094:ASN:OD1	1:H:1095:HIS:HD2	2.00	0.44
1:H:31:ASN:CB	2:P:5:ARG:NH1	2.81	0.43
1:H:1011:LEU:HD22	5:H:2040:HOH:O	2.19	0.43
1:H:33:TRP:CD2	2:P:3:ASP:HB2	2.53	0.43
1:H:1055:ALA:HB1	1:H:1056:PRO:HD2	2.02	0.42
2:P:5:ARG:HB2	4:P:1009:A2G:H14	2.02	0.40
1:H:1009:SER:CB	3:H:3108:EDO:H22	2.51	0.40

All (3) 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)
5:H:2041:HOH:O	5:H:2053:HOH:O[4_445]	1.11	1.09
5:H:2040:HOH:O	5:H:2056:HOH:O[4_445]	1.11	1.09
5:H:2039:HOH:O	5:H:2042:HOH:O[4_445]	1.12	1.08

## 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	H	222/244 (91%)	204 (92%)	16 (7%)	2 (1%)	17	7
2	P	4/6 (67%)	3 (75%)	1 (25%)	0	100	100
All	All	226/250 (90%)	207 (92%)	17 (8%)	2 (1%)	17	7

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	H	40	SER
1	H	95	VAL

### 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	H	183/191 (96%)	174 (95%)	9 (5%)	25	13
2	P	5/5 (100%)	4 (80%)	1 (20%)	1	0
All	All	188/196 (96%)	178 (95%)	10 (5%)	22	11

All (10) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	H	3	GLN
1	H	11	LEU
1	H	17	SER
1	H	40	SER
1	H	42	GLU
1	H	52	ARG
1	H	1004	VAL
1	H	1045	THR
1	H	1103	LYS
2	P	5	ARG

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (5) such sidechains are listed below:

Mol	Chain	Res	Type
1	H	3	GLN
1	H	81	GLN
1	H	82(A)	ASN
1	H	1053	ASN
1	H	1095	HIS

### 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 monosaccharides in this entry.

## 5.6 Ligand geometry [i](#)

3 ligands 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	$\# Z  > 2$
3	EDO	H	3113	-	3,3,3	0.24	0	2,2,2	0.75	0
4	A2G	P	1009	2	14,14,15	0.67	0	17,19,21	2.32	5 (29%)
3	EDO	H	3108	-	3,3,3	0.47	0	2,2,2	0.54	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	EDO	H	3113	-	-	0/1/1/1	-
4	A2G	P	1009	2	-	1/6/23/26	0/1/1/1
3	EDO	H	3108	-	-	1/1/1/1	-

There are no bond length outliers.

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	P	1009	A2G	O5-C5-C6	5.32	115.55	107.20
4	P	1009	A2G	O5-C1-C2	-4.72	103.84	111.29
4	P	1009	A2G	C1-C2-N2	4.18	117.64	110.49
4	P	1009	A2G	C2-N2-C7	-2.81	118.89	122.90
4	P	1009	A2G	C4-C3-C2	-2.75	106.99	111.02

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	H	3108	EDO	O1-C1-C2-O2
4	P	1009	A2G	C4-C5-C6-O6

There are no ring outliers.

3 monomers are involved in 10 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	H	3113	EDO	7	0
4	P	1009	A2G	1	0
3	H	3108	EDO	2	0

## 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	H	2

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	H	82(A):ASN	C	82(B):ASN	N	1.65
1	H	82:MET	C	82(A):ASN	N	1.62

## 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, 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	H	224/244 (91%)	0.39	12 (5%) 25 27	11, 33, 50, 79	3 (1%)
2	P	6/6 (100%)	0.46	0 100 100	33, 41, 53, 58	0
All	All	230/250 (92%)	0.39	12 (5%) 27 28	11, 33, 53, 79	3 (1%)

All (12) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	H	1107	GLY	5.0
1	H	1027(B)	ALA	4.9
1	H	41	PRO	4.0
1	H	1027(A)	GLY	3.9
1	H	1041	ASP	3.7
1	H	2	VAL	3.5
1	H	1	GLN	3.1
1	H	92	CYS	2.8
1	H	1042	HIS	2.8
1	H	43	LYS	2.8
1	H	112	SER	2.7
1	H	1093	SER	2.3

### 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, 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
3	EDO	H	3108	4/4	0.80	0.15	55,57,63,65	0
4	A2G	P	1009	14/15	0.88	0.27	53,62,68,72	0
3	EDO	H	3113	4/4	0.92	0.43	55,58,61,63	0

## 6.5 Other polymers [i](#)

There are no such residues in this entry.