



wwPDB X-ray Structure Validation Summary Report ⓘ

Feb 19, 2025 – 09:40 PM EST

PDB ID : 9DZC
Title : PvRBP2b N-terminal domain stabilised mutant WHT2483
Authors : Pymm, P.; D Sa, J.; Tham, W.H.
Deposited on : 2024-10-16
Resolution : 2.40 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	:	4.02b-467
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	1.21
EDS	:	3.0
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4	:	9.0.004 (Gargrove)
Density-Fitness	:	1.0.11
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.41.3

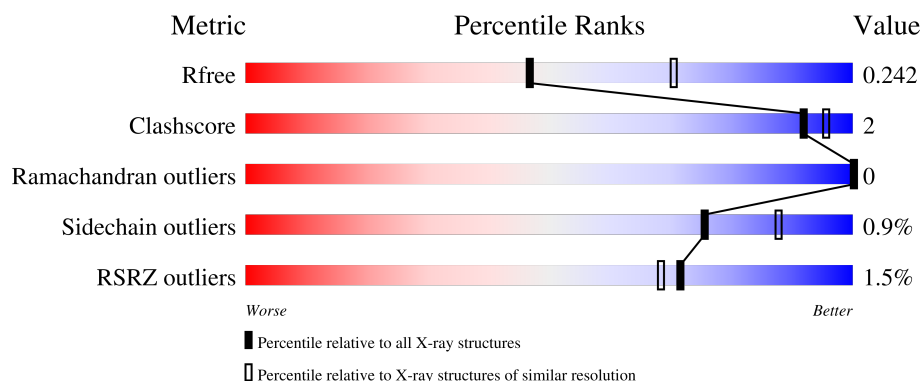
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.40 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	4642 (2.40-2.40)
Clashscore	180529	5218 (2.40-2.40)
Ramachandran outliers	177936	5158 (2.40-2.40)
Sidechain outliers	177891	5159 (2.40-2.40)
RSRZ outliers	164620	4642 (2.40-2.40)

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	330	 88% 9%
1	B	330	 86% 5% 8%

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 5348 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 Reticulocyte-binding protein 2b.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	301	Total	C	N	O	S	0	4	0
			2539	1635	429	467	8			
1	B	302	Total	C	N	O	S	0	3	0
			2570	1655	437	470	8			

There are 100 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	MET	-	initiating methionine	UNP A0A0U4ERT5
A	2	SER	-	expression tag	UNP A0A0U4ERT5
A	3	TYR	-	expression tag	UNP A0A0U4ERT5
A	4	TYR	-	expression tag	UNP A0A0U4ERT5
A	5	HIS	-	expression tag	UNP A0A0U4ERT5
A	6	HIS	-	expression tag	UNP A0A0U4ERT5
A	7	HIS	-	expression tag	UNP A0A0U4ERT5
A	8	HIS	-	expression tag	UNP A0A0U4ERT5
A	9	HIS	-	expression tag	UNP A0A0U4ERT5
A	10	HIS	-	expression tag	UNP A0A0U4ERT5
A	11	ASP	-	expression tag	UNP A0A0U4ERT5
A	12	TYR	-	expression tag	UNP A0A0U4ERT5
A	13	ASP	-	expression tag	UNP A0A0U4ERT5
A	14	ILE	-	expression tag	UNP A0A0U4ERT5
A	15	PRO	-	expression tag	UNP A0A0U4ERT5
A	16	THR	-	expression tag	UNP A0A0U4ERT5
A	17	THR	-	expression tag	UNP A0A0U4ERT5
A	18	GLU	-	expression tag	UNP A0A0U4ERT5
A	19	ASN	-	expression tag	UNP A0A0U4ERT5
A	20	LEU	-	expression tag	UNP A0A0U4ERT5
A	21	TYR	-	expression tag	UNP A0A0U4ERT5
A	22	PHE	-	expression tag	UNP A0A0U4ERT5
A	23	GLN	-	expression tag	UNP A0A0U4ERT5
A	24	GLY	-	expression tag	UNP A0A0U4ERT5
A	25	ALA	-	expression tag	UNP A0A0U4ERT5

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Chain	Residue	Modelled	Actual	Comment	Reference
A	26	MET	-	expression tag	UNP A0A0U4ERT5
A	27	GLY	-	expression tag	UNP A0A0U4ERT5
A	28	SER	-	expression tag	UNP A0A0U4ERT5
A	84	THR	LYS	conflict	UNP A0A0U4ERT5
A	103	LEU	ALA	conflict	UNP A0A0U4ERT5
A	107	LEU	VAL	conflict	UNP A0A0U4ERT5
A	130	LEU	LYS	conflict	UNP A0A0U4ERT5
A	169	LYS	GLN	conflict	UNP A0A0U4ERT5
A	175	ASP	TYR	conflict	UNP A0A0U4ERT5
A	182	TRP	PHE	conflict	UNP A0A0U4ERT5
A	197	LEU	TYR	conflict	UNP A0A0U4ERT5
A	207	PHE	TYR	conflict	UNP A0A0U4ERT5
A	214	TYR	GLY	conflict	UNP A0A0U4ERT5
A	217	LEU	MET	conflict	UNP A0A0U4ERT5
A	227	ASP	ASN	conflict	UNP A0A0U4ERT5
A	229	ILE	VAL	conflict	UNP A0A0U4ERT5
A	231	LEU	ILE	conflict	UNP A0A0U4ERT5
A	237	VAL	THR	conflict	UNP A0A0U4ERT5
A	238	LEU	GLN	conflict	UNP A0A0U4ERT5
A	258	ALA	SER	conflict	UNP A0A0U4ERT5
A	266	ALA	SER	conflict	UNP A0A0U4ERT5
A	278	GLU	ARG	conflict	UNP A0A0U4ERT5
A	291	ALA	SER	conflict	UNP A0A0U4ERT5
A	296	ALA	GLY	conflict	UNP A0A0U4ERT5
A	299	GLN	SER	conflict	UNP A0A0U4ERT5
B	1	MET	-	initiating methionine	UNP A0A0U4ERT5
B	2	SER	-	expression tag	UNP A0A0U4ERT5
B	3	TYR	-	expression tag	UNP A0A0U4ERT5
B	4	TYR	-	expression tag	UNP A0A0U4ERT5
B	5	HIS	-	expression tag	UNP A0A0U4ERT5
B	6	HIS	-	expression tag	UNP A0A0U4ERT5
B	7	HIS	-	expression tag	UNP A0A0U4ERT5
B	8	HIS	-	expression tag	UNP A0A0U4ERT5
B	9	HIS	-	expression tag	UNP A0A0U4ERT5
B	10	HIS	-	expression tag	UNP A0A0U4ERT5
B	11	ASP	-	expression tag	UNP A0A0U4ERT5
B	12	TYR	-	expression tag	UNP A0A0U4ERT5
B	13	ASP	-	expression tag	UNP A0A0U4ERT5
B	14	ILE	-	expression tag	UNP A0A0U4ERT5
B	15	PRO	-	expression tag	UNP A0A0U4ERT5
B	16	THR	-	expression tag	UNP A0A0U4ERT5
B	17	THR	-	expression tag	UNP A0A0U4ERT5

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Chain	Residue	Modelled	Actual	Comment	Reference
B	18	GLU	-	expression tag	UNP A0A0U4ERT5
B	19	ASN	-	expression tag	UNP A0A0U4ERT5
B	20	LEU	-	expression tag	UNP A0A0U4ERT5
B	21	TYR	-	expression tag	UNP A0A0U4ERT5
B	22	PHE	-	expression tag	UNP A0A0U4ERT5
B	23	GLN	-	expression tag	UNP A0A0U4ERT5
B	24	GLY	-	expression tag	UNP A0A0U4ERT5
B	25	ALA	-	expression tag	UNP A0A0U4ERT5
B	26	MET	-	expression tag	UNP A0A0U4ERT5
B	27	GLY	-	expression tag	UNP A0A0U4ERT5
B	28	SER	-	expression tag	UNP A0A0U4ERT5
B	84	THR	LYS	conflict	UNP A0A0U4ERT5
B	103	LEU	ALA	conflict	UNP A0A0U4ERT5
B	107	LEU	VAL	conflict	UNP A0A0U4ERT5
B	130	LEU	LYS	conflict	UNP A0A0U4ERT5
B	169	LYS	GLN	conflict	UNP A0A0U4ERT5
B	175	ASP	TYR	conflict	UNP A0A0U4ERT5
B	182	TRP	PHE	conflict	UNP A0A0U4ERT5
B	197	LEU	TYR	conflict	UNP A0A0U4ERT5
B	207	PHE	TYR	conflict	UNP A0A0U4ERT5
B	214	TYR	GLY	conflict	UNP A0A0U4ERT5
B	217	LEU	MET	conflict	UNP A0A0U4ERT5
B	227	ASP	ASN	conflict	UNP A0A0U4ERT5
B	229	ILE	VAL	conflict	UNP A0A0U4ERT5
B	231	LEU	ILE	conflict	UNP A0A0U4ERT5
B	237	VAL	THR	conflict	UNP A0A0U4ERT5
B	238	LEU	GLN	conflict	UNP A0A0U4ERT5
B	258	ALA	SER	conflict	UNP A0A0U4ERT5
B	266	ALA	SER	conflict	UNP A0A0U4ERT5
B	278	GLU	ARG	conflict	UNP A0A0U4ERT5
B	291	ALA	SER	conflict	UNP A0A0U4ERT5
B	296	ALA	GLY	conflict	UNP A0A0U4ERT5
B	299	GLN	SER	conflict	UNP A0A0U4ERT5

- Molecule 2 is (4S)-2-METHYL-2,4-PENTANEDIOL (three-letter code: MPD) (formula: C₆H₁₄O₂).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	C	O	0	0
			8	6	2		
2	A	1	Total	C	O	0	0
			8	6	2		

- Molecule 3 is GLYCEROL (three-letter code: GOL) (formula: $C_3H_8O_3$).



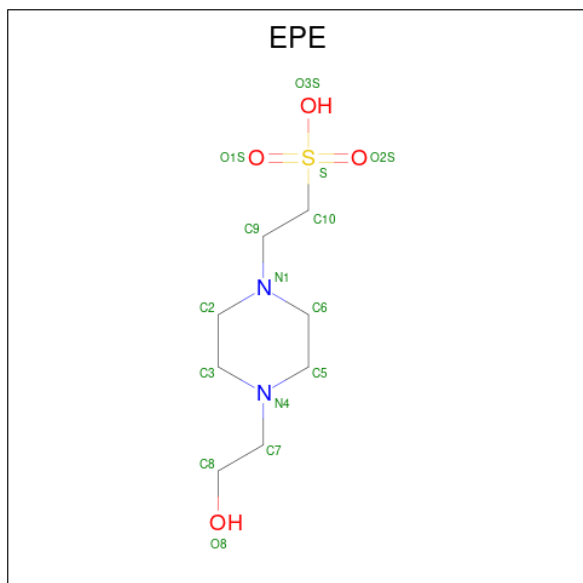
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	O	0	0
			6	3	3		
3	A	1	Total	C	O	0	0
			6	3	3		

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

- Molecule 4 is 4-(2-HYDROXYETHYL)-1-PIPERAZINE ETHANESULFONIC ACID (three-letter code: EPE) (formula: $C_8H_{18}N_2O_4S$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
4	A	1	Total	C	N	O	S	0	0
			15	8	2	4	1		

- Molecule 5 is DI(HYDROXYETHYL)ETHER (three-letter code: PEG) (formula: $C_4H_{10}O_3$).



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

- Molecule 6 is water.

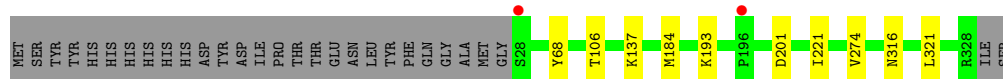
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	99	Total	O	0	0
			99	99		
6	B	78	Total	O	0	0
			78	78		

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.

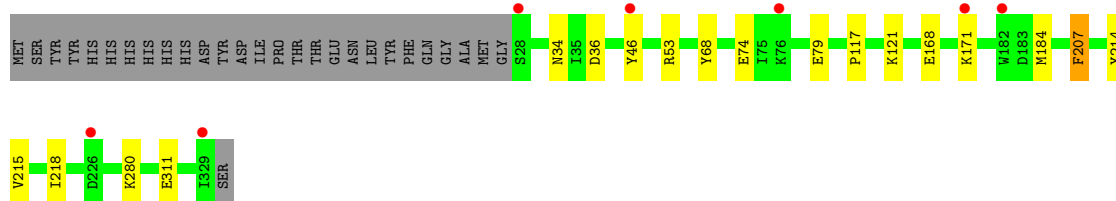
- Molecule 1: Reticulocyte-binding protein 2b

Chain A: 



- Molecule 1: Reticulocyte-binding protein 2b

Chain B: 



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	79.24Å 92.83Å 118.20Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	40.05 – 2.40 40.05 – 2.40	Depositor EDS
% Data completeness (in resolution range)	99.7 (40.05-2.40) 99.8 (40.05-2.40)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.47 (at 2.39Å)	Xtriage
Refinement program	PHENIX 1.21.1_5286	Depositor
R, R_{free}	0.198 , 0.245 0.198 , 0.242	Depositor DCC
R_{free} test set	32784 reflections (5.75%)	wwPDB-VP
Wilson B-factor (Å ²)	43.5	Xtriage
Anisotropy	0.111	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 37.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.51$, $\langle L^2 \rangle = 0.35$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	5348	wwPDB-VP
Average B, all atoms (Å ²)	53.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 25.72 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 3.0089e-03. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

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: MPD, GOL, PEG, EPE

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	0.25	0/2600	0.42	0/3497
1	B	0.25	0/2629	0.42	0/3532
All	All	0.25	0/5229	0.42	0/7029

There are no bond length outliers.

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	2539	0	2545	6	0
1	B	2570	0	2599	10	0
2	A	16	0	28	2	0
3	A	18	0	24	0	0
3	B	6	0	8	2	0
4	A	15	0	18	0	0
5	B	7	0	10	1	0
6	A	99	0	0	0	0
6	B	78	0	0	0	0
All	All	5348	0	5232	16	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.

The worst 5 of 16 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:274:VAL:HG12	3:B:402:GOL:H2	1.74	0.67
1:B:215:VAL:HG12	3:B:402:GOL:H32	1.84	0.60
1:B:168:GLU:HG2	1:B:280:LYS:NZ	2.27	0.49
1:A:316:ASN:HA	2:A:404:MPD:HM1	1.96	0.48
1:B:53:ARG:HD3	5:B:401:PEG:H12	1.96	0.47

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	303/330 (92%)	297 (98%)	6 (2%)	0	100	100
1	B	303/330 (92%)	294 (97%)	9 (3%)	0	100	100
All	All	606/660 (92%)	591 (98%)	15 (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	280/308 (91%)	278 (99%)	2 (1%)	81	91
1	B	286/308 (93%)	283 (99%)	3 (1%)	73	86
All	All	566/616 (92%)	561 (99%)	5 (1%)	75	88

All (5) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	193	LYS
1	A	201	ASP
1	B	46	TYR
1	B	79	GLU
1	B	207	PHE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	206	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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

8 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	$\# Z > 2$
2	MPD	A	404	-	7,7,7	0.38	0	9,10,10	0.41	0
3	GOL	A	402	-	5,5,5	0.30	0	5,5,5	0.41	0
5	PEG	B	401	-	6,6,6	0.25	0	5,5,5	0.31	0
3	GOL	A	406	-	5,5,5	0.29	0	5,5,5	0.33	0
2	MPD	A	401	-	7,7,7	0.41	0	9,10,10	0.52	0
3	GOL	B	402	-	5,5,5	0.32	0	5,5,5	0.30	0
4	EPE	A	405	-	15,15,15	0.79	1 (6%)	19,20,20	0.51	0
3	GOL	A	403	-	5,5,5	0.31	0	5,5,5	0.40	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
2	MPD	A	404	-	-	4/5/5/5	-
3	GOL	A	402	-	-	0/4/4/4	-
5	PEG	B	401	-	-	0/4/4/4	-
3	GOL	A	406	-	-	0/4/4/4	-
2	MPD	A	401	-	-	2/5/5/5	-
3	GOL	B	402	-	-	0/4/4/4	-
4	EPE	A	405	-	-	0/9/19/19	0/1/1/1
3	GOL	A	403	-	-	0/4/4/4	-

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	405	EPE	C10-S	2.11	1.80	1.77

There are no bond angle outliers.

There are no chirality outliers.

5 of 6 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	401	MPD	C2-C3-C4-O4
2	A	401	MPD	C2-C3-C4-C5
2	A	404	MPD	C2-C3-C4-O4
2	A	404	MPD	C2-C3-C4-C5

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Mol	Chain	Res	Type	Atoms
2	A	404	MPD	C1-C2-C3-C4

There are no ring outliers.

3 monomers are involved in 5 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	404	MPD	2	0
5	B	401	PEG	1	0
3	B	402	GOL	2	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 [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	301/330 (91%)	-0.17	2 (0%)	84 81	25, 47, 75, 96	4 (1%)
1	B	302/330 (91%)	0.03	7 (2%)	61 58	29, 52, 85, 105	3 (0%)
All	All	603/660 (91%)	-0.07	9 (1%)	71 68	25, 49, 81, 105	7 (1%)

The worst 5 of 9 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	46	TYR	3.6
1	B	28	SER	2.5
1	B	226	ASP	2.5
1	A	196	PRO	2.3
1	B	182	TRP	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, 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
3	GOL	B	402	6/6	0.64	0.24	68,72,80,84	0
3	GOL	A	402	6/6	0.76	0.17	63,76,86,86	0
3	GOL	A	403	6/6	0.78	0.21	82,87,93,101	0
2	MPD	A	401	8/8	0.78	0.24	68,86,94,99	0
3	GOL	A	406	6/6	0.80	0.18	73,80,90,91	0
2	MPD	A	404	8/8	0.86	0.20	63,73,75,79	0
5	PEG	B	401	7/7	0.87	0.17	54,63,76,84	0
4	EPE	A	405	15/15	0.92	0.13	65,77,88,97	0

6.5 Other polymers [i](#)

There are no such residues in this entry.