



wwPDB X-ray Structure Validation Summary Report ⓘ

Aug 13, 2025 – 01:06 pm BST

PDB ID : 9H25 / pdb_00009h25
Title : Structure of rsCherry exposed to oxygen for 16 days
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Deposited on : 2024-10-11
Resolution : 1.90 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 : 4-5-2 with Phenix2.0rc1
Mogul : 1.8.4, CSD as541be (2020)
Xtrriage (Phenix) : 2.0rc1
EDS : 3.0
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4 : 9.0.006 (Gargrove)
Density-Fitness : 1.0.12
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.45.1

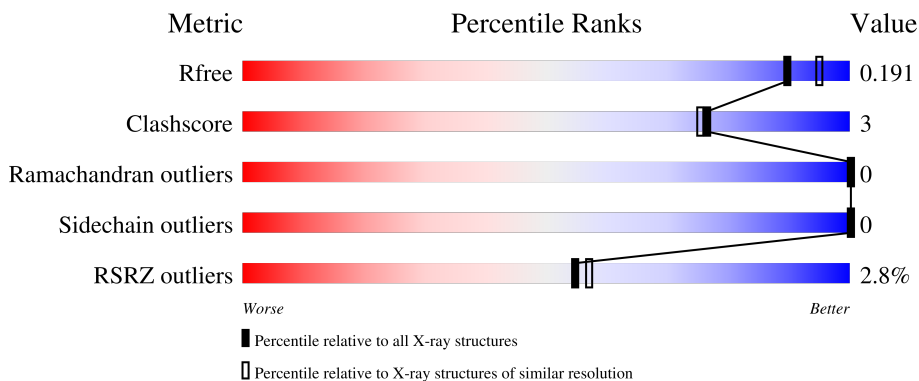
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.90 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	7293 (1.90-1.90)
Clashscore	180529	8090 (1.90-1.90)
Ramachandran outliers	177936	8022 (1.90-1.90)
Sidechain outliers	177891	8022 (1.90-1.90)
RSRZ outliers	164620	7292 (1.90-1.90)

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	265	

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 2073 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 rsCherry.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	219	1844	1178	307	349	10	0	7	0

There are 85 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-39	MET	-	initiating methionine	UNP Q9U6Y8
A	-38	ARG	-	expression tag	UNP Q9U6Y8
A	-37	GLY	-	expression tag	UNP Q9U6Y8
A	-36	SER	-	expression tag	UNP Q9U6Y8
A	-35	HIS	-	expression tag	UNP Q9U6Y8
A	-34	HIS	-	expression tag	UNP Q9U6Y8
A	-33	HIS	-	expression tag	UNP Q9U6Y8
A	-32	HIS	-	expression tag	UNP Q9U6Y8
A	-31	HIS	-	expression tag	UNP Q9U6Y8
A	-30	HIS	-	expression tag	UNP Q9U6Y8
A	-29	GLY	-	expression tag	UNP Q9U6Y8
A	-28	MET	-	expression tag	UNP Q9U6Y8
A	-27	ALA	-	expression tag	UNP Q9U6Y8
A	-26	SER	-	expression tag	UNP Q9U6Y8
A	-25	MET	-	expression tag	UNP Q9U6Y8
A	-24	THR	-	expression tag	UNP Q9U6Y8
A	-23	GLY	-	expression tag	UNP Q9U6Y8
A	-22	GLY	-	expression tag	UNP Q9U6Y8
A	-21	GLN	-	expression tag	UNP Q9U6Y8
A	-20	GLN	-	expression tag	UNP Q9U6Y8
A	-19	MET	-	expression tag	UNP Q9U6Y8
A	-18	GLY	-	expression tag	UNP Q9U6Y8
A	-17	ARG	-	expression tag	UNP Q9U6Y8
A	-16	ASP	-	expression tag	UNP Q9U6Y8
A	-15	LEU	-	expression tag	UNP Q9U6Y8
A	-14	TYR	-	expression tag	UNP Q9U6Y8
A	-13	ASP	-	expression tag	UNP Q9U6Y8

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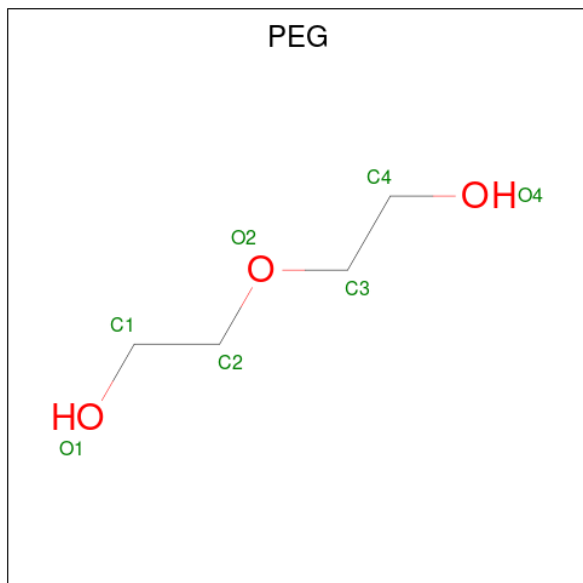
Chain	Residue	Modelled	Actual	Comment	Reference
A	-12	ASP	-	expression tag	UNP Q9U6Y8
A	-11	ASP	-	expression tag	UNP Q9U6Y8
A	-10	ASP	-	expression tag	UNP Q9U6Y8
A	-9	LYS	-	expression tag	UNP Q9U6Y8
A	-8	ASP	-	expression tag	UNP Q9U6Y8
A	-7	PRO	-	expression tag	UNP Q9U6Y8
A	-6	ALA	-	expression tag	UNP Q9U6Y8
A	-5	THR	-	expression tag	UNP Q9U6Y8
A	-4	MET	-	expression tag	UNP Q9U6Y8
A	-3	VAL	-	expression tag	UNP Q9U6Y8
A	-2	SER	-	expression tag	UNP Q9U6Y8
A	-1	LYS	-	expression tag	UNP Q9U6Y8
A	0	GLY	-	expression tag	UNP Q9U6Y8
A	1	GLU	-	expression tag	UNP Q9U6Y8
A	2	GLU	-	expression tag	UNP Q9U6Y8
A	3	ASP	-	expression tag	UNP Q9U6Y8
A	4	ASN	-	expression tag	UNP Q9U6Y8
A	5	MET	-	expression tag	UNP Q9U6Y8
A	6	ALA	-	expression tag	UNP Q9U6Y8
A	7	ILE	-	expression tag	UNP Q9U6Y8
A	17	HIS	ARG	engineered mutation	UNP Q9U6Y8
A	21	SER	THR	engineered mutation	UNP Q9U6Y8
A	41	THR	HIS	engineered mutation	UNP Q9U6Y8
A	42	GLN	ASN	engineered mutation	UNP Q9U6Y8
A	44	ALA	VAL	engineered mutation	UNP Q9U6Y8
A	66	QYX	GLN	chromophore	UNP Q9U6Y8
A	66	QYX	TYR	chromophore	UNP Q9U6Y8
A	66	QYX	GLY	chromophore	UNP Q9U6Y8
A	71	ALA	VAL	engineered mutation	UNP Q9U6Y8
A	83	LEU	LYS	engineered mutation	UNP Q9U6Y8
A	117	GLU	CYS	engineered mutation	UNP Q9U6Y8
A	124	LEU	PHE	engineered mutation	UNP Q9U6Y8
A	125	ARG	ILE	engineered mutation	UNP Q9U6Y8
A	127	THR	VAL	engineered mutation	UNP Q9U6Y8
A	144	VAL	GLU	engineered mutation	UNP Q9U6Y8
A	147	SER	THR	engineered mutation	UNP Q9U6Y8
A	150	MET	LEU	engineered mutation	UNP Q9U6Y8
A	153	GLU	ARG	engineered mutation	UNP Q9U6Y8
A	156	ALA	VAL	engineered mutation	UNP Q9U6Y8
A	161	SER	ILE	engineered mutation	UNP Q9U6Y8
A	162	LYS	HIS	engineered mutation	UNP Q9U6Y8
A	163	GLN	LYS	engineered mutation	UNP Q9U6Y8

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Chain	Residue	Modelled	Actual	Comment	Reference
A	164	ARG	ALA	engineered mutation	UNP Q9U6Y8
A	174	ASP	LEU	engineered mutation	UNP Q9U6Y8
A	175	ALA	VAL	engineered mutation	UNP Q9U6Y8
A	178	TRP	LYS	engineered mutation	UNP Q9U6Y8
A	179	THR	SER	engineered mutation	UNP Q9U6Y8
A	180	THR	ILE	engineered mutation	UNP Q9U6Y8
A	182	LYS	MET	engineered mutation	UNP Q9U6Y8
A	192	ALA	TYR	engineered mutation	UNP Q9U6Y8
A	194	ASN	TYR	engineered mutation	UNP Q9U6Y8
A	196	ASN	ASP	engineered mutation	UNP Q9U6Y8
A	197	ILE	SER	engineered mutation	UNP Q9U6Y8
A	217	ALA	THR	engineered mutation	UNP Q9U6Y8
A	222	SER	-	expression tag	UNP Q9U6Y8
A	223	THR	-	expression tag	UNP Q9U6Y8
A	224	GLY	-	expression tag	UNP Q9U6Y8
A	225	GLY	-	expression tag	UNP Q9U6Y8

- Molecule 2 is DI(HYDROXYETHYL)ETHER (CCD ID: PEG) (formula: C₄H₁₀O₃).



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

- Molecule 3 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: C₂H₆O₂).



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

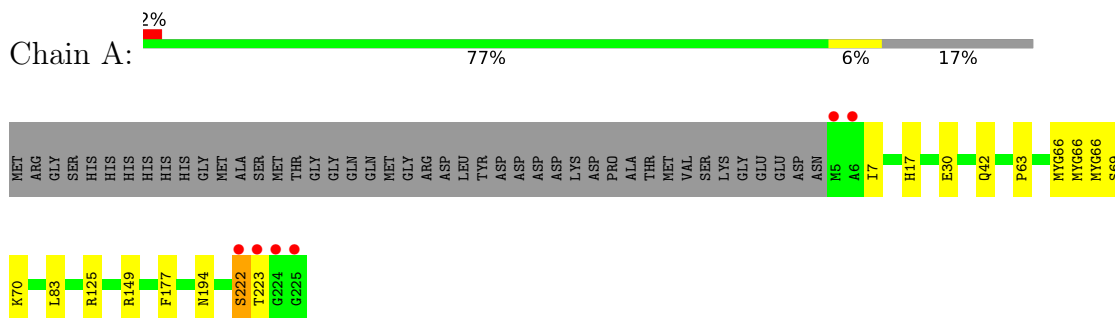
- Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	214	Total O 214 214	0	2

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: rsCherry



4 Data and refinement statistics

Property	Value	Source
Space group	I 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	61.39Å 43.45Å 108.82Å 90.00° 106.00° 90.00°	Depositor
Resolution (Å)	46.23 – 1.90 46.23 – 1.90	Depositor EDS
% Data completeness (in resolution range)	99.8 (46.23-1.90) 99.8 (46.23-1.90)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.70 (at 1.90Å)	Xtrriage
Refinement program	PHENIX (1.21.1_5286: ???)	Depositor
R, R_{free}	0.156 , 0.190 0.156 , 0.191	Depositor DCC
R_{free} test set	1158 reflections (5.27%)	wwPDB-VP
Wilson B-factor (Å ²)	19.3	Xtrriage
Anisotropy	0.598	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.39 , 44.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	2073	wwPDB-VP
Average B, all atoms (Å ²)	22.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 9.39% 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: Q2K, EDO, QYX, QIP, PEG

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	0.80	0/1842	0.94	1/2476 (0.0%)

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	A	0	4

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
1	A	177	PHE	CA-CB-CG	6.04	119.84	113.80

There are no chirality outliers.

All (4) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	125	ARG	Sidechain
1	A	149	ARG	Sidechain
1	A	222	SER	Peptide
1	A	223	THR	Peptide

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	1844	0	1722	8	0
2	A	7	0	10	1	0
3	A	8	0	12	2	0
4	A	214	0	0	3	0
All	All	2073	0	1744	10	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 3.

The worst 5 of 10 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:70[A]:LYS:HB3	1:A:83:LEU:HD12	1.79	0.64
3:A:403:EDO:H22	4:A:609:HOH:O	1.97	0.64
1:A:222:SER:HB2	4:A:619:HOH:O	1.98	0.63
1:A:70[A]:LYS:HB3	1:A:83:LEU:CD1	2.29	0.62
1:A:17:HIS:ND1	1:A:30:GLU:OE2	2.41	0.45

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	218/265 (82%)	215 (99%)	3 (1%)	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	189/220 (86%)	189 (100%)	0	100 100

There are no protein residues with a non-rotameric sidechain to report.

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	42	GLN
1	A	114	GLN
1	A	137	GLN
1	A	194	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

3 non-standard protein/DNA/RNA residues 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
1	QIP	A	66[C]	1	15,18,18	5.05	7 (46%)	13,26,26	3.73	8 (61%)
1	Q2K	A	66[B]	1	15,16,17	1.27	1 (6%)	8,21,23	1.40	2 (25%)
1	QYX	A	66[A]	1	22,24,25	3.56	6 (27%)	16,32,34	2.74	4 (25%)

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
1	QIP	A	66[C]	1	-	4/8/33/33	0/1/1/1
1	Q2K	A	66[B]	1	-	3/5/27/28	0/1/1/1
1	QYX	A	66[A]	1	-	5/9/31/32	0/2/2/2

The worst 5 of 14 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	66[C]	QIP	CB1-CA1	16.30	1.62	1.50
1	A	66[A]	QYX	CB2-CA2	-14.08	1.35	1.50
1	A	66[C]	QIP	CA3-C3	8.03	1.60	1.51
1	A	66[A]	QYX	C1-N3	4.85	1.41	1.37
1	A	66[A]	QYX	C1-N2	-4.13	1.29	1.35

The worst 5 of 14 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	66[C]	QIP	C3-CA3-N3	-7.99	96.31	102.68
1	A	66[A]	QYX	CG2-CB2-CA2	7.39	131.18	113.58
1	A	66[C]	QIP	O3-C3-CA3	-6.09	121.12	127.15
1	A	66[A]	QYX	O2-C2-CA2	6.01	132.90	120.67
1	A	66[C]	QIP	O2-C2-CA2	-4.07	111.50	118.58

There are no chirality outliers.

5 of 12 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	66[A]	QYX	C1-CA1-CB1-CG1
1	A	66[A]	QYX	N2-CA2-CB2-CG2
1	A	66[A]	QYX	C3-CA3-N3-C1
1	A	66[A]	QYX	C3-CA3-N3-C2
1	A	66[B]	Q2K	CA1-CB1-CG1-SD

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates [i](#)

There are no oligosaccharides 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
2	PEG	A	401[B]	-	6,6,6	0.11	0	5,5,5	0.09	0
3	EDO	A	402	-	3,3,3	0.37	0	2,2,2	0.67	0
3	EDO	A	403	-	3,3,3	0.32	0	2,2,2	0.04	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	PEG	A	401[B]	-	-	1/4/4/4	-
3	EDO	A	402	-	-	1/1/1/1	-
3	EDO	A	403	-	-	1/1/1/1	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (3) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	403	EDO	O1-C1-C2-O2
2	A	401[B]	PEG	O1-C1-C2-O2
3	A	402	EDO	O1-C1-C2-O2

There are no ring outliers.

2 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	401[B]	PEG	1	0
3	A	403	EDO	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	218/265 (82%)	-0.37	6 (2%) 55 57	6, 19, 34, 55	6 (2%)

The worst 5 of 6 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	222	SER	7.6
1	A	223	THR	7.1
1	A	5	MET	4.3
1	A	224	GLY	3.9
1	A	6	ALA	3.6

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, 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(Å ²)	Q<0.9
1	QYX	A	66[A]	23/24	0.89	0.15	21,23,25,26	23
1	Q2K	A	66[B]	16/17	-	-	21,23,25,26	16
1	QIP	A	66[C]	18/18	-	-	21,22,27,28	18

6.3 Carbohydrates [i](#)

There are no oligosaccharides 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(Å ²)	Q<0.9
2	PEG	A	401[B]	7/7	0.73	0.20	19,24,29,29	7
3	EDO	A	403	4/4	0.87	0.16	23,27,28,39	0
3	EDO	A	402	4/4	0.91	0.12	25,30,33,46	0

6.5 Other polymers [i](#)

There are no such residues in this entry.