



Full wwPDB X-ray Structure Validation Report ⓘ

May 17, 2020 – 11:07 am BST

PDB ID : 5OQO
Title : Crystal structure of the *S. cerevisiae* condensin Ycg1-Brn1 subcomplex bound to DNA (crystal form II)
Authors : Kschonsak, M.; Hassler, M.; Haering, C.H.
Deposited on : 2017-08-14
Resolution : 3.25 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 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

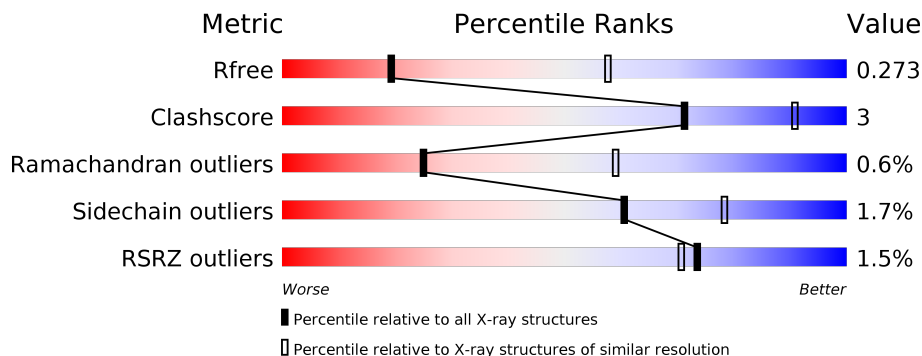
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.25 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	1191 (3.30-3.22)
Clashscore	141614	1251 (3.30-3.22)
Ramachandran outliers	138981	1229 (3.30-3.22)
Sidechain outliers	138945	1228 (3.30-3.22)
RSRZ outliers	127900	1154 (3.30-3.22)

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 ≥ 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	871	 85% 8% • 6%
2	B	152	 50% 13% • 36%
3	C	18	 72% 28%
3	D	18	 89% 11%

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 crite-

ria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
5	PGE	A	1003	-	-	-	X

2 Entry composition [i](#)

There are 5 unique types of molecules in this entry. The entry contains 16165 atoms, of which 7977 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 Condensin complex subunit 3.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
			Total	C	H	N	O	S			
1	A	817	13270	4196	6690	1114	1241	29	0	0	0

There are 58 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	5	MET	-	initiating methionine	UNP Q06680
A	?	-	GLN	deletion	UNP Q06680
A	?	-	GLU	deletion	UNP Q06680
A	?	-	GLU	deletion	UNP Q06680
A	?	-	LYS	deletion	UNP Q06680
A	?	-	ILE	deletion	UNP Q06680
A	?	-	LYS	deletion	UNP Q06680
A	?	-	SER	deletion	UNP Q06680
A	?	-	LYS	deletion	UNP Q06680
A	?	-	LYS	deletion	UNP Q06680
A	?	-	ILE	deletion	UNP Q06680
A	?	-	ASN	deletion	UNP Q06680
A	?	-	ARG	deletion	UNP Q06680
A	?	-	ARG	deletion	UNP Q06680
A	?	-	ASN	deletion	UNP Q06680
A	?	-	GLU	deletion	UNP Q06680
A	?	-	THR	deletion	UNP Q06680
A	?	-	SER	deletion	UNP Q06680
A	?	-	VAL	deletion	UNP Q06680
A	?	-	ASP	deletion	UNP Q06680
A	?	-	GLU	deletion	UNP Q06680
A	?	-	GLU	deletion	UNP Q06680
A	?	-	ASP	deletion	UNP Q06680
A	?	-	GLU	deletion	UNP Q06680
A	?	-	ASN	deletion	UNP Q06680
A	?	-	GLY	deletion	UNP Q06680
A	?	-	THR	deletion	UNP Q06680

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Chain	Residue	Modelled	Actual	Comment	Reference
A	?	-	HIS	deletion	UNP Q06680
A	?	-	ASN	deletion	UNP Q06680
A	?	-	ASP	deletion	UNP Q06680
A	?	-	GLU	deletion	UNP Q06680
A	?	-	VAL	deletion	UNP Q06680
A	?	-	ASN	deletion	UNP Q06680
A	?	-	GLU	deletion	UNP Q06680
A	?	-	ASP	deletion	UNP Q06680
A	?	-	GLU	deletion	UNP Q06680
A	?	-	GLU	deletion	UNP Q06680
A	?	-	ASP	deletion	UNP Q06680
A	?	-	ASP	deletion	UNP Q06680
A	?	-	ASN	deletion	UNP Q06680
A	?	-	ILE	deletion	UNP Q06680
A	?	-	SER	deletion	UNP Q06680
A	?	-	SER	deletion	UNP Q06680
A	?	-	PHE	deletion	UNP Q06680
A	?	-	HIS	deletion	UNP Q06680
A	?	-	SER	deletion	UNP Q06680
A	?	-	ALA	deletion	UNP Q06680
A	?	-	VAL	deletion	UNP Q06680
A	?	-	GLU	deletion	UNP Q06680
A	?	-	ASN	deletion	UNP Q06680
A	?	-	LEU	deletion	UNP Q06680
A	?	-	VAL	deletion	UNP Q06680
A	?	-	GLN	deletion	UNP Q06680
A	?	-	GLY	deletion	UNP Q06680
A	?	-	ASN	deletion	UNP Q06680
A	?	-	GLY	deletion	UNP Q06680
A	?	-	ASN	deletion	UNP Q06680
A	?	-	VAL	deletion	UNP Q06680

- Molecule 2 is a protein called Condensin complex subunit 2.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
			Total	C	H	N	O	S			
2	B	98	1665	538	825	148	150	4	0	0	0

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	378	GLY	-	expression tag	UNP P38170

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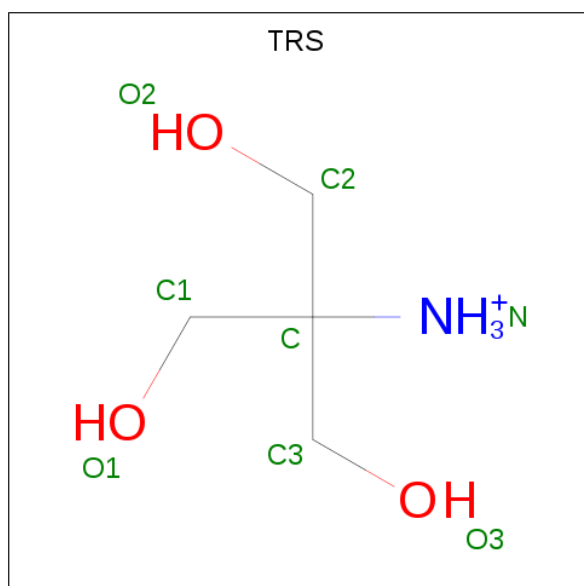
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Chain	Residue	Modelled	Actual	Comment	Reference
B	379	PRO	-	expression tag	UNP P38170
B	380	LEU	-	expression tag	UNP P38170
B	381	GLY	-	expression tag	UNP P38170
B	382	HIS	-	expression tag	UNP P38170
B	383	MET	-	expression tag	UNP P38170

- Molecule 3 is a DNA chain called DNA (5'-D(*GP*AP*TP*GP*TP*GP*TP*AP*GP*CP*TP*AP*CP*AP*CP*AP*TP*C)-3').

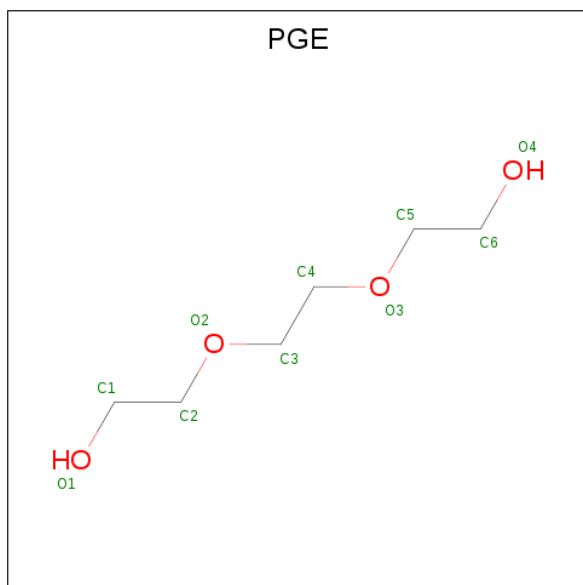
Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
			Total	C	H	N	O	P			
3	C	18	571	176	205	67	106	17	0	0	0
3	D	18	571	176	205	67	106	17	0	0	0

- Molecule 4 is 2-AMINO-2-HYDROXYMETHYL-PROPANE-1,3-DIOL (three-letter code: TRS) (formula: C₄H₁₂NO₃).




Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
			Total	C	H	N	O		
4	A	1	20	4	12	1	3	0	0
4	A	1	20	4	12	1	3	0	0

- Molecule 5 is TRIETHYLENE GLYCOL (three-letter code: PGE) (formula: C₆H₁₄O₄).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
5	A	1	Total	C	H	O	0	0
			24	6	14	4		
5	A	1	Total	C	H	O	0	0
			24	6	14	4		

- Molecule 3: DNA (5'-D(*GP*AP*TP*GP*TP*GP*TP*AP*GP*CP*TP*AP*CP*AP*CP*AP*TP*C)-3')

Chain D:  89% 11%



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	88.80Å 117.94Å 154.97Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	47.32 – 3.25 47.32 – 3.25	Depositor EDS
% Data completeness (in resolution range)	99.9 (47.32-3.25) 88.6 (47.32-3.25)	Depositor EDS
R_{merge}	0.27	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	0.99 (at 3.25Å)	Xtrriage
Refinement program	PHENIX (1.10.1_2155: ???)	Depositor
R, R_{free}	0.236 , 0.273 0.236 , 0.273	Depositor DCC
R_{free} test set	2000 reflections (7.60%)	wwPDB-VP
Wilson B-factor (Å ²)	73.2	Xtrriage
Anisotropy	0.661	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 57.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.45$, $\langle L^2 \rangle = 0.27$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	16165	wwPDB-VP
Average B, all atoms (Å ²)	96.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.28% 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: TRS, PGE

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	0.24	0/6681	0.39	0/9032
2	B	0.25	0/860	0.44	0/1149
3	C	0.56	0/410	0.97	0/631
3	D	0.53	0/410	0.96	0/631
All	All	0.28	0/8361	0.49	0/11443

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	6580	6690	6696	40	1
2	B	840	825	823	15	0
3	C	366	205	205	5	0
3	D	366	205	205	2	0
4	A	16	24	24	0	1
5	A	20	28	28	3	0
All	All	8188	7977	7981	54	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 (54) 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)
2:B:466:THR:OG1	2:B:468:ASP:OD1	1.92	0.87
1:A:437:GLU:OE2	1:A:441:ARG:NH2	2.11	0.84
1:A:72:GLU:OE2	2:B:457:LYS:N	2.12	0.82
1:A:186:GLN:OE1	1:A:231:ILE:N	2.15	0.80
1:A:319:ASP:OD2	1:A:322:ARG:NE	2.15	0.79
1:A:636:LEU:O	1:A:640:ASN:ND2	2.18	0.76
1:A:124:ARG:NH1	5:A:1003:PGE:O4	2.22	0.72
1:A:380:GLU:OE1	1:A:380:GLU:N	2.23	0.71
1:A:339:ASP:OD2	1:A:340:ILE:N	2.24	0.69
1:A:883:ASP:OD1	1:A:884:ASN:N	2.27	0.68
1:A:51:GLU:OE1	1:A:113:ARG:NH1	2.29	0.65
1:A:252:ARG:NH1	1:A:286:ASP:OD1	2.30	0.63
1:A:908:ASN:O	1:A:910:ARG:N	2.30	0.63
1:A:728:LEU:O	1:A:731:SER:OG	2.22	0.58
1:A:895:LYS:O	1:A:899:ASN:ND2	2.37	0.57
1:A:59:ASP:OD2	1:A:117:GLN:NE2	2.38	0.57
1:A:617:ASN:OD1	1:A:618:ILE:N	2.40	0.55
1:A:69:LYS:O	1:A:136:ARG:NH1	2.40	0.54
1:A:894:ASP:O	1:A:898:ASN:ND2	2.40	0.54
2:B:502:PHE:O	2:B:508:ARG:NH2	2.42	0.53
1:A:136:ARG:NH2	1:A:139:GLN:OE1	2.42	0.52
1:A:738:SER:O	2:B:405:ARG:NH2	2.44	0.51
1:A:753:VAL:O	1:A:757:SER:OG	2.23	0.51
3:C:4:DG:N2	3:D:15:DC:O2	2.45	0.50
2:B:400:ARG:NH1	3:C:12:DA:OP1	2.45	0.50
2:B:507:ASP:OD2	2:B:511:ARG:NH1	2.45	0.49
1:A:248:ASN:ND2	1:A:251:ASN:OD1	2.44	0.49
3:C:13:DC:O2	3:D:6:DG:N2	2.43	0.49
1:A:865:ASP:OD2	1:A:867:SER:OG	2.24	0.49
1:A:608:THR:OG1	1:A:609:PRO:HD3	2.12	0.49
2:B:468:ASP:O	2:B:471:GLU:N	2.47	0.48
5:A:1003:PGE:H62	2:B:471:GLU:OE2	2.15	0.47
3:C:2:DA:H4'	3:C:3:DT:OP1	2.15	0.47
2:B:385:ILE:HG23	2:B:386:PHE:H	1.81	0.45
1:A:124:ARG:NH1	5:A:1003:PGE:HO4	2.13	0.45
1:A:437:GLU:OE2	1:A:440:ARG:NH1	2.50	0.45
1:A:910:ARG:HE	1:A:910:ARG:HA	1.83	0.44
1:A:363:ARG:NE	1:A:424:GLN:OE1	2.47	0.44
1:A:794:GLU:OE1	1:A:794:GLU:N	2.47	0.44
2:B:482:LYS:O	2:B:483:ILE:HG13	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:2:DA:H2'	3:C:3:DT:O5'	2.19	0.43
2:B:395:ASP:OD2	2:B:506:THR:HG22	2.20	0.42
1:A:179:VAL:O	1:A:182:LEU:N	2.53	0.42
1:A:652:ASN:OD1	1:A:652:ASN:N	2.53	0.42
2:B:467:ASP:O	2:B:470:PHE:HB3	2.19	0.42
1:A:243:ARG:NH1	2:B:497:LEU:HD21	2.35	0.41
1:A:350:ILE:HG22	1:A:351:TRP:H	1.84	0.41
1:A:361:LEU:O	1:A:365:ILE:HG22	2.21	0.41
1:A:369:CYS:O	1:A:373:ASN:N	2.54	0.41
1:A:287:ARG:HD3	2:B:501:ASP:OD2	2.21	0.41
1:A:813:ARG:NH1	1:A:859:PHE:HB2	2.36	0.41
1:A:900:LEU:O	1:A:903:LEU:N	2.53	0.41
1:A:60:LYS:HE2	2:B:468:ASP:OD2	2.21	0.40
1:A:179:VAL:O	1:A:183:THR:HG23	2.22	0.40

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)
1:A:881:GLU:O	4:A:1002:TRS:O1[3_555]	2.11	0.09

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	809/871 (93%)	775 (96%)	29 (4%)	5 (1%)	25	59
2	B	94/152 (62%)	86 (92%)	8 (8%)	0	100	100
All	All	903/1023 (88%)	861 (95%)	37 (4%)	5 (1%)	25	59

All (5) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	350	ILE
1	A	909	GLU
1	A	29	ALA
1	A	319	ASP
1	A	318	LEU

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	743/794 (94%)	733 (99%)	10 (1%)	69	82
2	B	93/143 (65%)	89 (96%)	4 (4%)	29	59
All	All	836/937 (89%)	822 (98%)	14 (2%)	60	78

All (14) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	354	PHE
1	A	361	LEU
1	A	432	TYR
1	A	606	LEU
1	A	843	GLU
1	A	863	GLU
1	A	894	ASP
1	A	903	LEU
1	A	908	ASN
1	A	909	GLU
2	B	411	ARG
2	B	470	PHE
2	B	483	ILE
2	B	522	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

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](#)

4 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
4	TRS	A	1001	-	7,7,7	0.36	0	9,9,9	0.29	0
5	PGE	A	1003	-	9,9,9	0.29	0	8,8,8	0.26	0
4	TRS	A	1002	-	7,7,7	0.43	0	9,9,9	0.29	0
5	PGE	A	1004	-	9,9,9	0.24	0	8,8,8	0.37	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
4	TRS	A	1001	-	-	3/9/9/9	-
5	PGE	A	1003	-	-	4/7/7/7	-
4	TRS	A	1002	-	-	0/9/9/9	-
5	PGE	A	1004	-	-	5/7/7/7	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (12) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	A	1004	PGE	O2-C3-C4-O3
5	A	1004	PGE	O3-C5-C6-O4
4	A	1001	TRS	C2-C-C1-O1
5	A	1003	PGE	O2-C3-C4-O3
5	A	1004	PGE	O1-C1-C2-O2
4	A	1001	TRS	N-C-C1-O1
5	A	1003	PGE	O3-C5-C6-O4
5	A	1003	PGE	C6-C5-O3-C4
4	A	1001	TRS	C3-C-C1-O1
5	A	1004	PGE	C4-C3-O2-C2
5	A	1003	PGE	O1-C1-C2-O2
5	A	1004	PGE	C3-C4-O3-C5

There are no ring outliers.

2 monomers are involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	A	1003	PGE	3	0
4	A	1002	TRS	0	1

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	817/871 (93%)	0.08	12 (1%) 73 71	47, 81, 125, 219	0
2	B	98/152 (64%)	0.09	2 (2%) 65 63	48, 86, 137, 159	0
3	C	18/18 (100%)	-0.28	0 100 100	108, 134, 155, 156	0
3	D	18/18 (100%)	-0.41	0 100 100	82, 133, 149, 154	0
All	All	951/1059 (89%)	0.07	14 (1%) 73 71	47, 82, 134, 219	0

All (14) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	790	GLU	4.3
1	A	314	LEU	3.4
1	A	7	ILE	3.0
1	A	567	GLU	2.9
1	A	300	ALA	2.7
2	B	383	MET	2.6
1	A	339	ASP	2.3
2	B	457	LYS	2.3
1	A	311	LEU	2.2
1	A	318	LEU	2.2
1	A	903	LEU	2.2
1	A	334	PHE	2.1
1	A	595	GLU	2.1
1	A	341	LEU	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 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, 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
5	PGE	A	1003	10/10	0.74	0.42	72,118,147,151	0
5	PGE	A	1004	10/10	0.87	0.30	64,98,115,139	0
4	TRS	A	1002	8/8	0.94	0.44	14,34,68,74	0
4	TRS	A	1001	8/8	0.94	0.35	45,56,73,76	0

6.5 Other polymers [i](#)

There are no such residues in this entry.