



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 5, 2026 – 01:58 PM UTC

PDB ID : 1XKL / pdb_00001xkl
Title : Crystal Structure of Salicylic Acid-binding Protein 2 (SABP2) from *Nicotiana tabacum*, NESG Target AR2241
Authors : Forouhar, F.; Chen, Y.; Chiang, Y.; Acton, T.B.; Montelione, G.T.; Hunt, J.F.; Tong, L.; Northeast Structural Genomics Consortium (NESG)
Deposited on : 2004-09-29
Resolution : 2.00 Å(reported)

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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 Phenix2.0
Mogul : 2022.3.0, CSD as543be (2022)
Xtriage (Phenix) : 2.0
EDS : 3.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4 : 9.0.010 (Gargrove)
Density-Fitness : 1.0.12
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

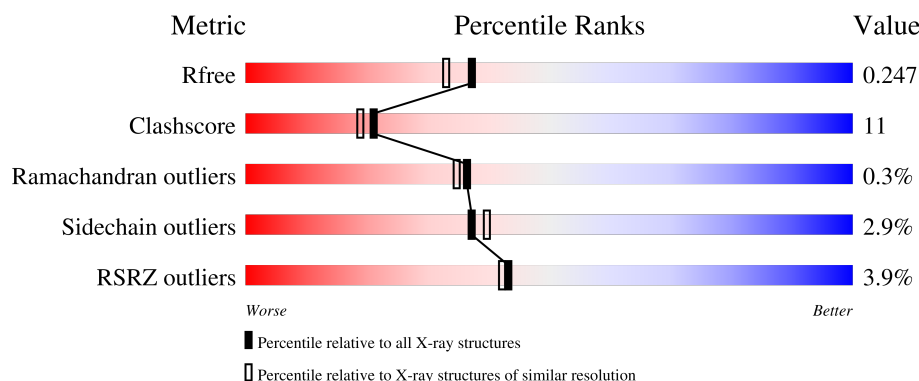
1 Overall quality at a glance ⓘ

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.00 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}	180053	10052 (2.00-2.00)
Clashscore	190562	11152 (2.00-2.00)
Ramachandran outliers	187476	11031 (2.00-2.00)
Sidechain outliers	187428	11029 (2.00-2.00)
RSRZ outliers	180081	10067 (2.00-2.00)

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	273	5% 66% 26% • 5%
1	B	273	3% 66% 26% • 6%
1	C	273	3% 71% 22% • 6%
1	D	273	3% 72% 22% • 6%

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
2	STH	A	297	X	-	-	-
2	STH	B	298	X	-	-	-
2	STH	C	299	X	-	-	-
2	STH	D	300	X	-	-	-

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 9105 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 salicylic acid-binding protein 2.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	258	Total	C	N	O	S	Se	0	0	0
			2042	1317	331	380	5	9			
1	B	256	Total	C	N	O	S	Se	0	0	0
			2022	1304	328	376	5	9			
1	C	257	Total	C	N	O	S	Se	0	0	0
			2034	1313	329	378	5	9			
1	D	257	Total	C	N	O	S	Se	0	0	0
			2033	1311	329	379	5	9			

There are 88 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	63	MSE	MET	modified residue	UNP Q6RYA0
A	66	MSE	MET	modified residue	UNP Q6RYA0
A	85	MSE	MET	modified residue	UNP Q6RYA0
A	91	MSE	MET	modified residue	UNP Q6RYA0
A	108	MSE	MET	modified residue	UNP Q6RYA0
A	149	MSE	MET	modified residue	UNP Q6RYA0
A	183	MSE	MET	modified residue	UNP Q6RYA0
A	239	MSE	MET	modified residue	UNP Q6RYA0
A	241	MSE	MET	modified residue	UNP Q6RYA0
A	261	MET	-	cloning artifact	UNP Q6RYA0
A	262	ALA	-	cloning artifact	UNP Q6RYA0
A	263	GLY	-	cloning artifact	UNP Q6RYA0
A	264	ASP	-	cloning artifact	UNP Q6RYA0
A	265	PRO	-	cloning artifact	UNP Q6RYA0
A	266	LEU	-	cloning artifact	UNP Q6RYA0
A	267	GLU	-	cloning artifact	UNP Q6RYA0
A	268	HIS	-	expression tag	UNP Q6RYA0
A	269	HIS	-	expression tag	UNP Q6RYA0
A	270	HIS	-	expression tag	UNP Q6RYA0
A	271	HIS	-	expression tag	UNP Q6RYA0
A	272	HIS	-	expression tag	UNP Q6RYA0

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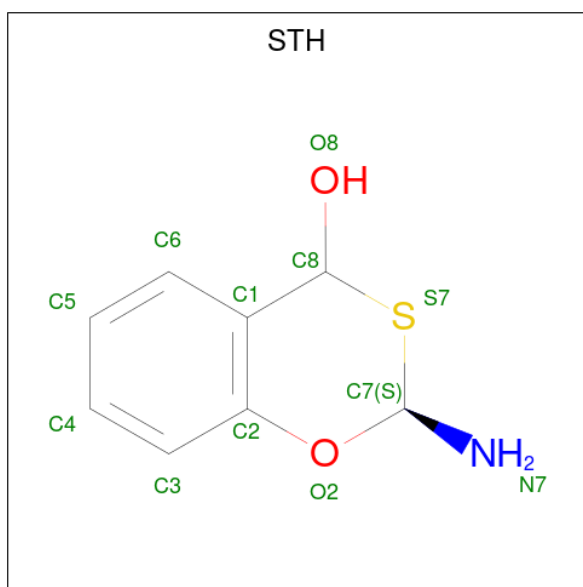
Chain	Residue	Modelled	Actual	Comment	Reference
A	273	HIS	-	expression tag	UNP Q6RYA0
B	63	MSE	MET	modified residue	UNP Q6RYA0
B	66	MSE	MET	modified residue	UNP Q6RYA0
B	85	MSE	MET	modified residue	UNP Q6RYA0
B	91	MSE	MET	modified residue	UNP Q6RYA0
B	108	MSE	MET	modified residue	UNP Q6RYA0
B	149	MSE	MET	modified residue	UNP Q6RYA0
B	183	MSE	MET	modified residue	UNP Q6RYA0
B	239	MSE	MET	modified residue	UNP Q6RYA0
B	241	MSE	MET	modified residue	UNP Q6RYA0
B	261	MET	-	cloning artifact	UNP Q6RYA0
B	262	ALA	-	cloning artifact	UNP Q6RYA0
B	263	GLY	-	cloning artifact	UNP Q6RYA0
B	264	ASP	-	cloning artifact	UNP Q6RYA0
B	265	PRO	-	cloning artifact	UNP Q6RYA0
B	266	LEU	-	cloning artifact	UNP Q6RYA0
B	267	GLU	-	cloning artifact	UNP Q6RYA0
B	268	HIS	-	expression tag	UNP Q6RYA0
B	269	HIS	-	expression tag	UNP Q6RYA0
B	270	HIS	-	expression tag	UNP Q6RYA0
B	271	HIS	-	expression tag	UNP Q6RYA0
B	272	HIS	-	expression tag	UNP Q6RYA0
B	273	HIS	-	expression tag	UNP Q6RYA0
C	63	MSE	MET	modified residue	UNP Q6RYA0
C	66	MSE	MET	modified residue	UNP Q6RYA0
C	85	MSE	MET	modified residue	UNP Q6RYA0
C	91	MSE	MET	modified residue	UNP Q6RYA0
C	108	MSE	MET	modified residue	UNP Q6RYA0
C	149	MSE	MET	modified residue	UNP Q6RYA0
C	183	MSE	MET	modified residue	UNP Q6RYA0
C	239	MSE	MET	modified residue	UNP Q6RYA0
C	241	MSE	MET	modified residue	UNP Q6RYA0
C	261	MET	-	cloning artifact	UNP Q6RYA0
C	262	ALA	-	cloning artifact	UNP Q6RYA0
C	263	GLY	-	cloning artifact	UNP Q6RYA0
C	264	ASP	-	cloning artifact	UNP Q6RYA0
C	265	PRO	-	cloning artifact	UNP Q6RYA0
C	266	LEU	-	cloning artifact	UNP Q6RYA0
C	267	GLU	-	cloning artifact	UNP Q6RYA0
C	268	HIS	-	expression tag	UNP Q6RYA0
C	269	HIS	-	expression tag	UNP Q6RYA0
C	270	HIS	-	expression tag	UNP Q6RYA0

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Chain	Residue	Modelled	Actual	Comment	Reference
C	271	HIS	-	expression tag	UNP Q6RYA0
C	272	HIS	-	expression tag	UNP Q6RYA0
C	273	HIS	-	expression tag	UNP Q6RYA0
D	63	MSE	MET	modified residue	UNP Q6RYA0
D	66	MSE	MET	modified residue	UNP Q6RYA0
D	85	MSE	MET	modified residue	UNP Q6RYA0
D	91	MSE	MET	modified residue	UNP Q6RYA0
D	108	MSE	MET	modified residue	UNP Q6RYA0
D	149	MSE	MET	modified residue	UNP Q6RYA0
D	183	MSE	MET	modified residue	UNP Q6RYA0
D	239	MSE	MET	modified residue	UNP Q6RYA0
D	241	MSE	MET	modified residue	UNP Q6RYA0
D	261	MET	-	cloning artifact	UNP Q6RYA0
D	262	ALA	-	cloning artifact	UNP Q6RYA0
D	263	GLY	-	cloning artifact	UNP Q6RYA0
D	264	ASP	-	cloning artifact	UNP Q6RYA0
D	265	PRO	-	cloning artifact	UNP Q6RYA0
D	266	LEU	-	cloning artifact	UNP Q6RYA0
D	267	GLU	-	cloning artifact	UNP Q6RYA0
D	268	HIS	-	expression tag	UNP Q6RYA0
D	269	HIS	-	expression tag	UNP Q6RYA0
D	270	HIS	-	expression tag	UNP Q6RYA0
D	271	HIS	-	expression tag	UNP Q6RYA0
D	272	HIS	-	expression tag	UNP Q6RYA0
D	273	HIS	-	expression tag	UNP Q6RYA0

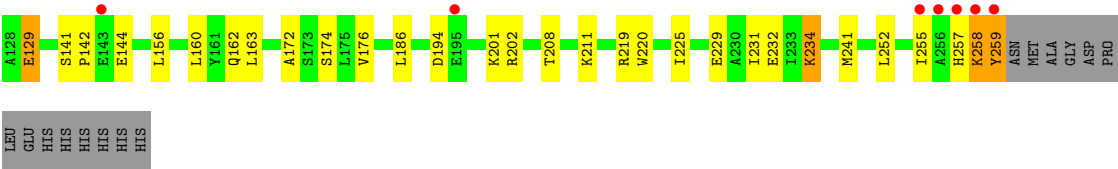
- Molecule 2 is 2-AMINO-4H-1,3-BENZOXATHIIN-4-OL (CCD ID: STH) (formula: C₈H₉NO₂S).



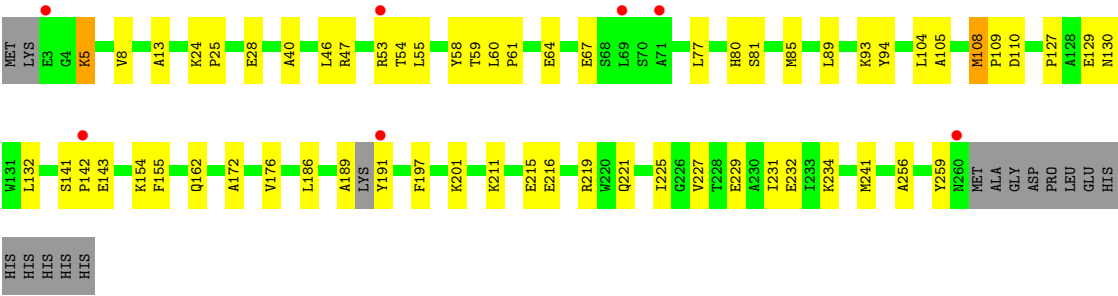
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	A	1	Total	C	N	O	S	0	0
			12	8	1	2	1		
2	B	1	Total	C	N	O	S	0	0
			12	8	1	2	1		
2	C	1	Total	C	N	O	S	0	0
			12	8	1	2	1		
2	D	1	Total	C	N	O	S	0	0
			12	8	1	2	1		

- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	204	Total	O	0	0
			204	204		
3	B	238	Total	O	0	0
			238	238		
3	C	243	Total	O	0	0
			243	243		
3	D	241	Total	O	0	0
			241	241		



● Molecule 1: salicylic acid-binding protein 2



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, α , β , γ	136.46Å 167.77Å 44.83Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	27.15 – 2.00 27.15 – 2.00	Depositor EDS
% Data completeness (in resolution range)	84.2 (27.15-2.00) 93.6 (27.15-2.00)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	0.07	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.58 (at 2.00Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.190 , 0.234 0.202 , 0.247	Depositor DCC
R_{free} test set	12902 reflections (9.83%)	wwPDB-VP
Wilson B-factor (Å ²)	21.3	Xtriage
Anisotropy	0.448	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 42.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	9105	wwPDB-VP
Average B, all atoms (Å ²)	24.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.99% 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

5.1 Standard geometry

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

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	0.44	1/2085 (0.0%)	0.86	4/2808 (0.1%)
1	B	0.43	1/2064 (0.0%)	0.87	5/2779 (0.2%)
1	C	0.44	1/2077 (0.0%)	0.87	4/2797 (0.1%)
1	D	0.42	1/2075 (0.0%)	0.84	3/2794 (0.1%)
All	All	0.43	4/8301 (0.0%)	0.86	16/11178 (0.1%)

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	81	SER	N-CA	-8.97	1.34	1.46
1	D	81	SER	N-CA	-8.73	1.34	1.46
1	B	81	SER	N-CA	-8.56	1.35	1.46
1	A	81	SER	N-CA	-8.20	1.35	1.46

The worst 5 of 16 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	81	SER	CA-CB-OG	8.58	128.26	111.10
1	B	81	SER	CA-CB-OG	8.51	128.12	111.10
1	C	81	SER	CA-CB-OG	8.48	128.06	111.10
1	D	81	SER	CA-CB-OG	8.40	127.91	111.10
1	A	72	ASP	N-CA-C	-7.89	103.37	113.16

There are no chirality outliers.

There are no planarity outliers.

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	A	2042	0	2014	55	0
1	B	2022	0	1999	47	0
1	C	2034	0	2008	40	0
1	D	2033	0	2000	40	0
2	A	12	0	6	1	0
2	B	12	0	6	1	0
2	C	12	0	6	1	0
2	D	12	0	7	1	0
3	A	204	0	0	2	0
3	B	238	0	0	3	0
3	C	243	0	0	2	1
3	D	241	0	0	4	1
All	All	9105	0	8046	179	2

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 11.

The worst 5 of 179 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:53:ARG:HH11	1:A:53:ARG:HB3	1.30	0.96
1:C:194:ASP:HB2	3:C:533:HOH:O	1.70	0.92
1:A:160:LEU:HB3	1:A:239:MSE:HE1	1.56	0.85
1:A:160:LEU:HB3	1:A:239:MSE:CE	2.08	0.83
1:D:85:MSE:SE	1:D:109:PRO:HG3	2.29	0.82

All (2) 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)
3:D:533:HOH:O	3:D:533:HOH:O[2_665]	1.30	0.90
3:C:542:HOH:O	3:C:542:HOH:O[2_665]	1.51	0.69

5.3 Torsion angles

5.3.1 Protein backbone

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	256/273 (94%)	244 (95%)	12 (5%)	0	100	100
1	B	254/273 (93%)	237 (93%)	16 (6%)	1 (0%)	30	27
1	C	255/273 (93%)	241 (94%)	12 (5%)	2 (1%)	16	11
1	D	253/273 (93%)	245 (97%)	8 (3%)	0	100	100
All	All	1018/1092 (93%)	967 (95%)	48 (5%)	3 (0%)	36	35

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	257	HIS
1	C	258	LYS
1	C	257	HIS

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	A	220/224 (98%)	213 (97%)	7 (3%)	34	35
1	B	218/224 (97%)	209 (96%)	9 (4%)	27	26
1	C	219/224 (98%)	214 (98%)	5 (2%)	44	49
1	D	219/224 (98%)	215 (98%)	4 (2%)	51	58
All	All	876/896 (98%)	851 (97%)	25 (3%)	37	40

5 of 25 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	144	GLU
1	C	144	GLU
1	D	154	LYS
1	C	129	GLU
1	C	219	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 9 such sidechains are listed below:

Mol	Chain	Res	Type
1	D	221	GLN
1	D	246	GLN
1	B	96	GLN
1	C	130	ASN
1	D	96	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](#)

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
2	STH	C	299	1	8,13,13	3.19	5 (62%)	11,18,18	1.72	1 (9%)
2	STH	B	298	1	8,13,13	3.00	5 (62%)	11,18,18	1.64	1 (9%)
2	STH	A	297	1	8,13,13	2.99	5 (62%)	11,18,18	1.72	1 (9%)
2	STH	D	300	1	8,13,13	2.98	5 (62%)	11,18,18	1.70	1 (9%)

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	STH	C	299	1	1/1/2/2	-	0/1/2/2
2	STH	B	298	1	1/1/2/2	-	0/1/2/2
2	STH	A	297	1	1/1/2/2	-	0/1/2/2
2	STH	D	300	1	1/1/2/2	-	0/1/2/2

The worst 5 of 20 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	299	STH	C6-C1	5.06	1.45	1.39
2	C	299	STH	C2-C1	4.91	1.49	1.39
2	A	297	STH	C2-C1	4.82	1.48	1.39
2	B	298	STH	C6-C1	4.75	1.45	1.39
2	B	298	STH	C2-C1	4.71	1.48	1.39

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	297	STH	O8-C8-C1	5.12	121.82	111.48
2	C	299	STH	O8-C8-C1	5.10	121.77	111.48
2	D	300	STH	O8-C8-C1	5.07	121.71	111.48
2	B	298	STH	O8-C8-C1	4.87	121.30	111.48

All (4) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
2	A	297	STH	C8
2	B	298	STH	C8
2	C	299	STH	C8
2	D	300	STH	C8

There are no torsion outliers.

There are no ring outliers.

4 monomers are involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	C	299	STH	1	0
2	B	298	STH	1	0
2	A	297	STH	1	0
2	D	300	STH	1	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	249/273 (91%)	0.23	14 (5%) 30 29	10, 21, 37, 50	0
1	B	247/273 (90%)	0.18	9 (3%) 46 45	10, 21, 38, 53	0
1	C	248/273 (90%)	-0.01	9 (3%) 46 45	10, 18, 35, 54	0
1	D	248/273 (90%)	0.24	7 (2%) 55 54	12, 24, 40, 54	0
All	All	992/1092 (90%)	0.16	39 (3%) 43 42	10, 21, 38, 54	0

The worst 5 of 39 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	257	HIS	4.4
1	C	257	HIS	4.2
1	A	71	ALA	3.9
1	C	259	TYR	3.8
1	D	260	ASN	3.6

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 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($\text{\AA}^2$)	Q<0.9
2	STH	B	298	12/12	0.89	0.10	21,22,26,27	0
2	STH	D	300	12/12	0.89	0.09	21,24,26,32	0
2	STH	C	299	12/12	0.91	0.08	17,19,20,27	0
2	STH	A	297	12/12	0.92	0.08	14,18,19,25	0

6.5 Other polymers [i](#)

There are no such residues in this entry.