



wwPDB X-ray Structure Validation Summary Report ⓘ

Feb 1, 2016 – 06:45 AM GMT

PDB ID : 2Y5L
Title : ORALLY ACTIVE AMINOPYRIDINES AS INHIBITORS OF
TETRAMERIC FRUCTOSE 1,6-BISPHOSPHATASE
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Kirchner, S.; Benz, J.; Joseph, C.; Alvarez-Sanchez, R.; Gubler, M.; Schott,
B.; Benardeau, A.; Tozzo, E.; Kitas, E.
Deposited on : 2011-01-14
Resolution : 2.20 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
<http://wwpdb.org/validation/2016/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 : 1.7 (RC4), CSD as536be (2015)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20026688
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk26865

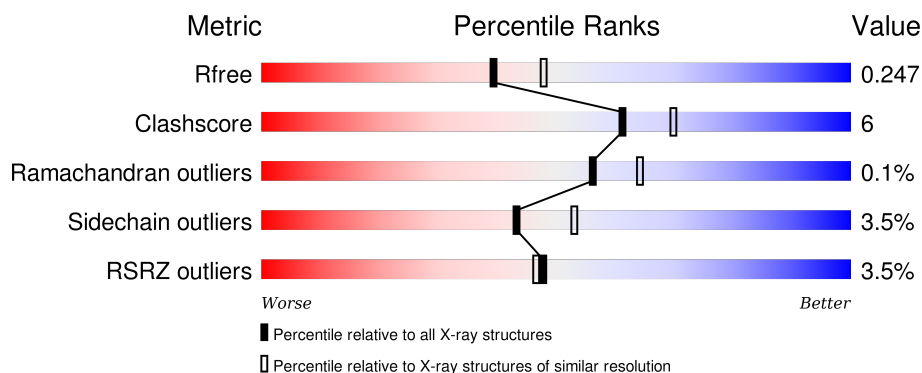
1 Overall quality at a glance ⓘ

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.20 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}	91344	3774 (2.20-2.20)
Clashscore	102246	4477 (2.20-2.20)
Ramachandran outliers	100387	4404 (2.20-2.20)
Sidechain outliers	100360	4405 (2.20-2.20)
RSRZ outliers	91569	3781 (2.20-2.20)

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. 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	338	<div> <div>3%</div> <div>82% 12% • 5%</div> </div>
1	B	338	<div> <div>3%</div> <div>79% 14% 6%</div> </div>
1	C	338	<div> <div>2%</div> <div>81% 12% • 6%</div> </div>
1	D	338	<div> <div>•</div> <div>82% 12% 6%</div> </div>
1	E	338	<div> <div>6%</div> <div>81% 13% • 5%</div> </div>

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Mol	Chain	Length	Quality of chain
1	F	338	<div><div></div><div>6%</div><div>77%</div><div>16%</div><div>6%</div></div>
1	G	338	<div><div></div><div>3%</div><div>81%</div><div>12%</div><div>6%</div></div>
1	H	338	<div><div></div><div>3%</div><div>79%</div><div>14%</div><div>6%</div></div>

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 20167 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.

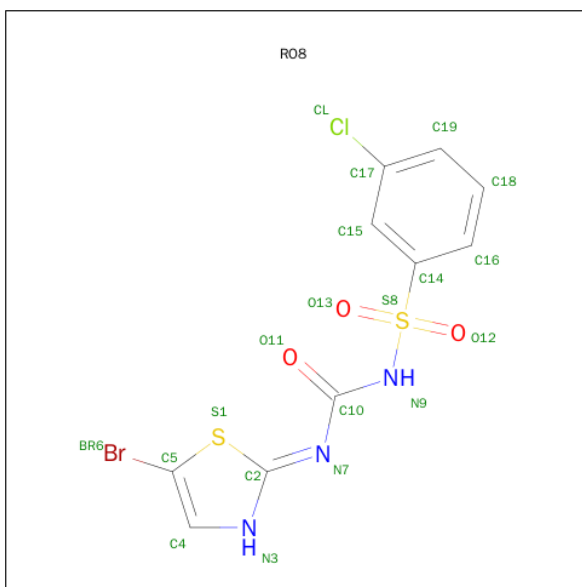
- Molecule 1 is a protein called FRUCTOSE-1,6-BISPHOSPHATASE 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	320	Total	C	N	O	S	0	1	1
			2447	1558	413	459	17			
1	B	318	Total	C	N	O	S	0	1	1
			2432	1548	410	457	17			
1	C	318	Total	C	N	O	S	0	0	1
			2426	1545	407	457	17			
1	D	318	Total	C	N	O	S	0	1	1
			2432	1548	410	457	17			
1	E	320	Total	C	N	O	S	0	1	1
			2448	1559	413	459	17			
1	F	318	Total	C	N	O	S	0	1	1
			2431	1547	410	457	17			
1	G	318	Total	C	N	O	S	0	1	1
			2431	1547	410	457	17			
1	H	318	Total	C	N	O	S	0	0	1
			2426	1545	407	457	17			

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	217	LYS	ARG	VARIANT	UNP P09467
B	217	LYS	ARG	VARIANT	UNP P09467
C	217	LYS	ARG	VARIANT	UNP P09467
D	217	LYS	ARG	VARIANT	UNP P09467
E	217	LYS	ARG	VARIANT	UNP P09467
F	217	LYS	ARG	VARIANT	UNP P09467
G	217	LYS	ARG	VARIANT	UNP P09467
H	217	LYS	ARG	VARIANT	UNP P09467

- Molecule 2 is N-[(2Z)-5-BROMO-1,3-THIAZOL-2(3H)-YLIDENE]CARBAMOYL}-3-CHL OROBENZENESULFONAMIDE (three-letter code: RO8) (formula: C₁₀H₇BrClN₃O₃S₂).



Mol	Chain	Residues	Atoms							ZeroOcc	AltConf
2	A	1	Total	Br	C	Cl	N	O	S	0	0
			20	1	10	1	3	3	2		
2	B	1	Total	Br	C	Cl	N	O	S	0	0
			20	1	10	1	3	3	2		
2	C	1	Total	Br	C	Cl	N	O	S	0	0
			20	1	10	1	3	3	2		
2	D	1	Total	Br	C	Cl	N	O	S	0	0
			20	1	10	1	3	3	2		
2	E	1	Total	Br	C	Cl	N	O	S	0	0
			20	1	10	1	3	3	2		
2	F	1	Total	Br	C	Cl	N	O	S	0	0
			20	1	10	1	3	3	2		
2	G	1	Total	Br	C	Cl	N	O	S	0	0
			20	1	10	1	3	3	2		
2	H	1	Total	Br	C	Cl	N	O	S	0	0
			20	1	10	1	3	3	2		

- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	64	Total	O	0	0
			64	64		
3	B	60	Total	O	0	0
			60	60		
3	C	81	Total	O	0	0
			81	81		
3	D	91	Total	O	0	0
			91	91		

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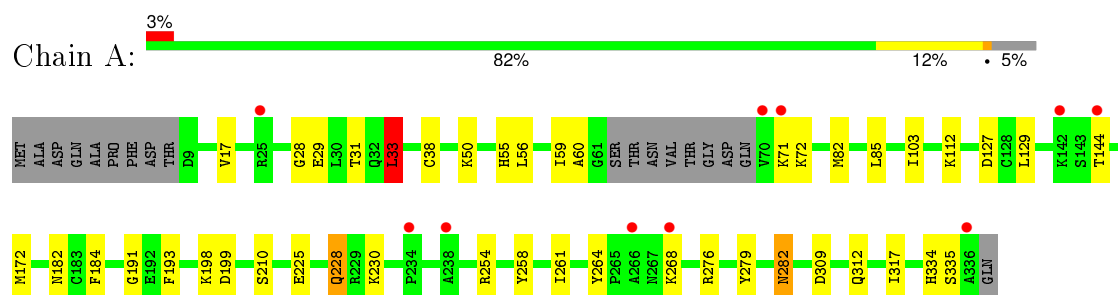
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	E	44	Total 44	O 44	0	0
3	F	46	Total 46	O 46	0	0
3	G	77	Total 77	O 77	0	0
3	H	71	Total 71	O 71	0	0

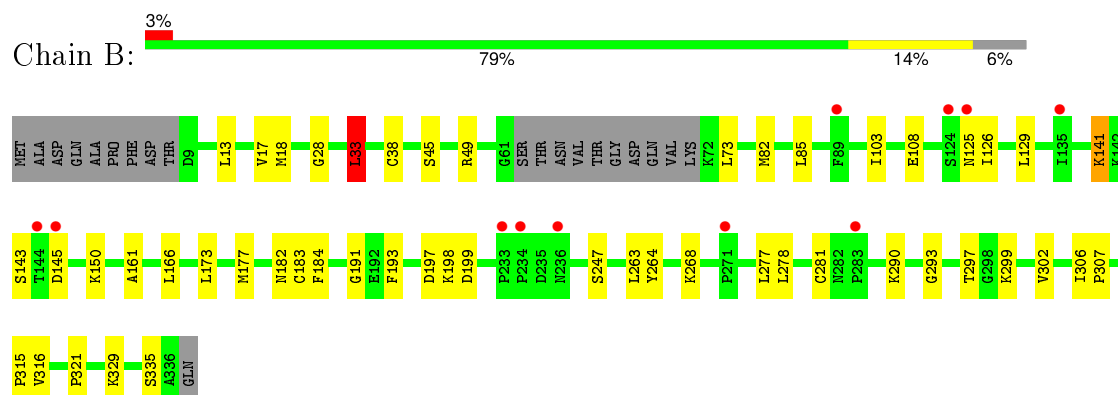
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors 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.

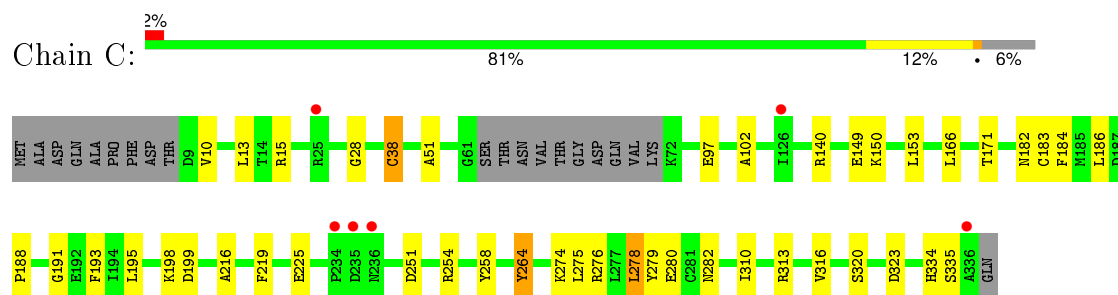
• Molecule 1: FRUCTOSE-1,6-BISPHOSPHATASE 1



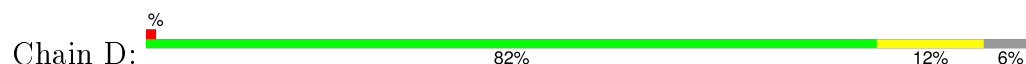
• Molecule 1: FRUCTOSE-1,6-BISPHOSPHATASE 1

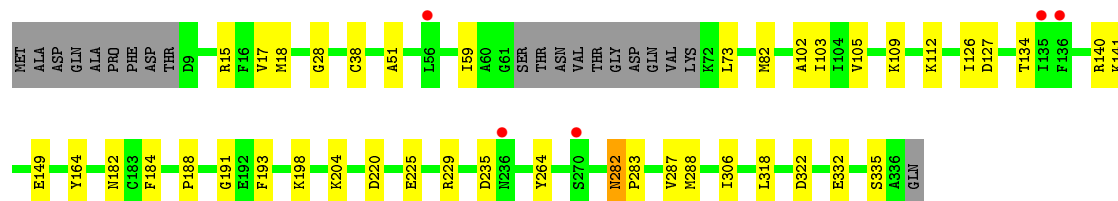


• Molecule 1: FRUCTOSE-1,6-BISPHOSPHATASE 1

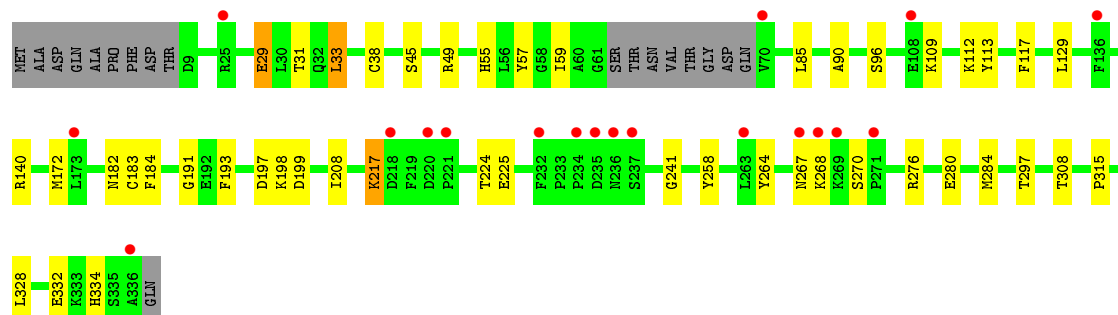
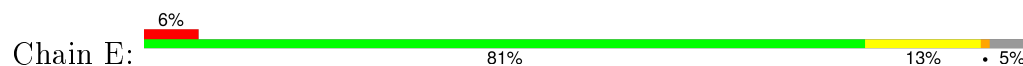


• Molecule 1: FRUCTOSE-1,6-BISPHOSPHATASE 1

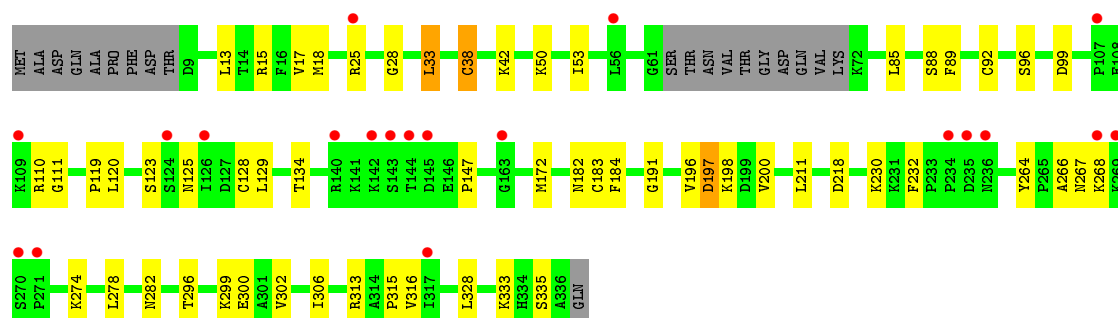




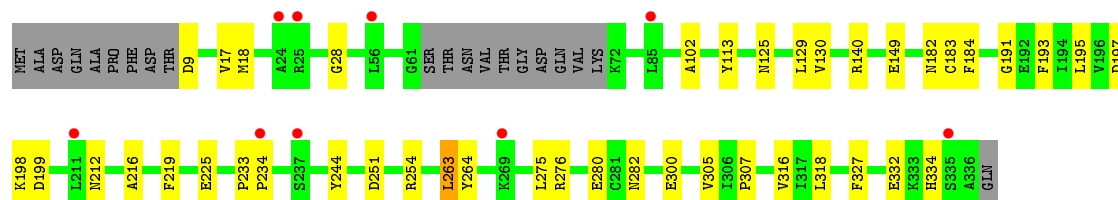
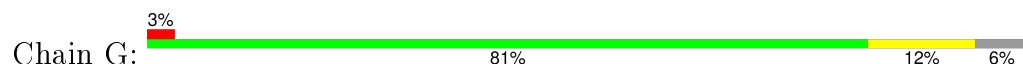
• Molecule 1: FRUCTOSE-1,6-BISPHOSPHATASE 1



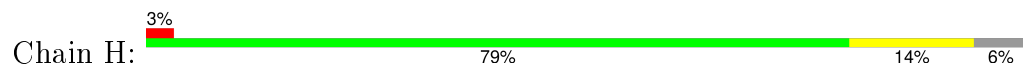
• Molecule 1: FRUCTOSE-1,6-BISPHOSPHATASE 1

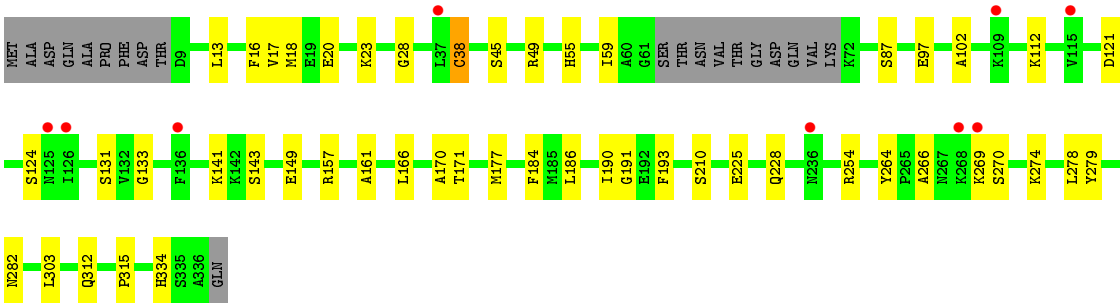


• Molecule 1: FRUCTOSE-1,6-BISPHOSPHATASE 1



• Molecule 1: FRUCTOSE-1,6-BISPHOSPHATASE 1





4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	66.79 Å 285.08 Å 83.69 Å 90.00° 97.30° 90.00°	Depositor
Resolution (Å)	142.86 – 2.20 24.89 – 2.20	Depositor EDS
% Data completeness (in resolution range)	99.2 (142.86-2.20) 99.4 (24.89-2.20)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.13 (at 2.19 Å)	Xtriage
Refinement program	REFMAC 5.6.0093	Depositor
R, R_{free}	0.205 , 0.254 0.201 , 0.247	Depositor DCC
R_{free} test set	7800 reflections (5.29%)	DCC
Wilson B-factor (Å ²)	40.2	Xtriage
Anisotropy	0.508	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 40.3	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Outliers	0 of 155315 reflections	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	20167	wwPDB-VP
Average B, all atoms (Å ²)	48.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.45% 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, 0.375 respectively for untwinned datasets, and 0.333, 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: RO8

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	0.55	0/2496	0.66	1/3370 (0.0%)
1	B	0.53	0/2480	0.64	1/3349 (0.0%)
1	C	0.58	1/2469 (0.0%)	0.65	0/3335
1	D	0.57	0/2480	0.65	0/3349
1	E	0.50	0/2496	0.60	0/3370
1	F	0.49	0/2480	0.61	0/3349
1	G	0.55	0/2480	0.64	0/3349
1	H	0.54	0/2469	0.63	0/3335
All	All	0.54	1/19850 (0.0%)	0.63	2/26806 (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	1

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	183	CYS	CB-SG	-5.29	1.73	1.81

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	33	LEU	CA-CB-CG	6.17	129.48	115.30
1	A	33	LEU	CA-CB-CG	5.70	128.41	115.30

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	60	ALA	Peptide

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	2447	0	2496	28	0
1	B	2432	0	2478	27	0
1	C	2426	0	2469	29	0
1	D	2432	0	2478	26	0
1	E	2448	0	2500	37	0
1	F	2431	0	2474	33	0
1	G	2431	0	2474	31	0
1	H	2426	0	2469	28	0
2	A	20	0	7	3	0
2	B	20	0	7	3	0
2	C	20	0	7	2	0
2	D	20	0	7	2	0
2	E	20	0	7	1	0
2	F	20	0	7	2	0
2	G	20	0	7	2	0
2	H	20	0	7	3	0
3	A	64	0	0	2	0
3	B	60	0	0	2	0
3	C	81	0	0	0	0
3	D	91	0	0	0	0
3	E	44	0	0	0	0
3	F	46	0	0	2	0
3	G	77	0	0	3	0
3	H	71	0	0	1	0
All	All	20167	0	19894	218	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 6.

The worst 5 of 218 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:G:327:PHE:CZ	3:G:2050:HOH:O	2.00	1.14
1:E:140[B]:ARG:HG3	1:E:140[B]:ARG:HH11	1.21	1.04
1:E:140[B]:ARG:CG	1:E:140[B]:ARG:HH11	1.76	0.97
1:G:327:PHE:CE1	3:G:2050:HOH:O	2.14	0.95
3:A:2025:HOH:O	1:C:15:ARG:HD3	1.73	0.86

There are no symmetry-related clashes.

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	317/338 (94%)	303 (96%)	13 (4%)	1 (0%)	46	50
1	B	315/338 (93%)	305 (97%)	10 (3%)	0	100	100
1	C	314/338 (93%)	307 (98%)	6 (2%)	1 (0%)	46	50
1	D	315/338 (93%)	308 (98%)	7 (2%)	0	100	100
1	E	317/338 (94%)	304 (96%)	13 (4%)	0	100	100
1	F	315/338 (93%)	295 (94%)	20 (6%)	0	100	100
1	G	315/338 (93%)	303 (96%)	12 (4%)	0	100	100
1	H	314/338 (93%)	299 (95%)	15 (5%)	0	100	100
All	All	2522/2704 (93%)	2424 (96%)	96 (4%)	2 (0%)	56	64

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	C	335	SER
1	A	335	SER

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	267/281 (95%)	256 (96%)	11 (4%)	37	45
1	B	265/281 (94%)	252 (95%)	13 (5%)	31	36
1	C	264/281 (94%)	260 (98%)	4 (2%)	72	84
1	D	265/281 (94%)	257 (97%)	8 (3%)	48	60
1	E	267/281 (95%)	258 (97%)	9 (3%)	44	54
1	F	265/281 (94%)	251 (95%)	14 (5%)	28	32
1	G	265/281 (94%)	260 (98%)	5 (2%)	65	77
1	H	264/281 (94%)	254 (96%)	10 (4%)	40	49
All	All	2122/2248 (94%)	2048 (96%)	74 (4%)	43	53

5 of 74 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	D	306	ILE
1	E	264	TYR
1	H	228	GLN
1	D	332	GLU
1	E	33	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 29 such sidechains are listed below:

Mol	Chain	Res	Type
1	D	334	HIS
1	E	228	GLN
1	H	182	ASN
1	E	101	HIS
1	E	282	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry ⓘ

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	RO8	A	1000	-	18,21,21	1.89	3 (16%)	19,30,30	2.50	3 (15%)
2	RO8	B	1000	-	18,21,21	1.89	3 (16%)	19,30,30	2.93	2 (10%)
2	RO8	C	1000	-	18,21,21	2.12	4 (22%)	19,30,30	2.64	4 (21%)
2	RO8	D	1000	-	18,21,21	2.18	5 (27%)	19,30,30	2.30	2 (10%)
2	RO8	E	1000	-	18,21,21	1.88	4 (22%)	19,30,30	2.63	2 (10%)
2	RO8	F	1000	-	18,21,21	1.83	4 (22%)	19,30,30	2.73	3 (15%)
2	RO8	G	1000	-	18,21,21	1.83	4 (22%)	19,30,30	2.40	3 (15%)
2	RO8	H	1000	-	18,21,21	1.95	4 (22%)	19,30,30	2.67	2 (10%)

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	RO8	A	1000	-	-	0/13/15/15	0/2/2/2
2	RO8	B	1000	-	-	0/13/15/15	0/2/2/2
2	RO8	C	1000	-	-	0/13/15/15	0/2/2/2
2	RO8	D	1000	-	-	0/13/15/15	0/2/2/2
2	RO8	E	1000	-	-	0/13/15/15	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	RO8	F	1000	-	-	0/13/15/15	0/2/2/2
2	RO8	G	1000	-	-	0/13/15/15	0/2/2/2
2	RO8	H	1000	-	-	0/13/15/15	0/2/2/2

The worst 5 of 31 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	H	1000	RO8	S8-N9	-5.86	1.52	1.64
2	C	1000	RO8	S8-N9	-5.73	1.52	1.64
2	E	1000	RO8	S8-N9	-5.69	1.52	1.64
2	D	1000	RO8	S8-N9	-5.69	1.52	1.64
2	B	1000	RO8	S8-N9	-5.63	1.52	1.64

The worst 5 of 21 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	1000	RO8	O13-S8-O12	-10.59	105.50	119.54
2	F	1000	RO8	O13-S8-O12	-9.11	107.46	119.54
2	A	1000	RO8	O13-S8-O12	-9.05	107.53	119.54
2	E	1000	RO8	O13-S8-O12	-9.05	107.54	119.54
2	H	1000	RO8	O13-S8-O12	-8.80	107.87	119.54

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

8 monomers are involved in 18 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	1000	RO8	3	0
2	B	1000	RO8	3	0
2	C	1000	RO8	2	0
2	D	1000	RO8	2	0
2	E	1000	RO8	1	0
2	F	1000	RO8	2	0
2	G	1000	RO8	2	0
2	H	1000	RO8	3	0

5.7 Other polymers ⓘ

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

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	320/338 (94%)	0.10	10 (3%) 52 51	29, 44, 79, 119	0
1	B	318/338 (94%)	0.14	11 (3%) 48 46	28, 46, 80, 113	0
1	C	318/338 (94%)	-0.04	6 (1%) 70 68	27, 41, 65, 97	0
1	D	318/338 (94%)	-0.12	5 (1%) 74 73	24, 37, 61, 80	0
1	E	320/338 (94%)	0.25	19 (5%) 26 25	33, 52, 89, 116	0
1	F	318/338 (94%)	0.25	20 (6%) 23 23	32, 51, 89, 120	0
1	G	318/338 (94%)	0.01	9 (2%) 56 55	29, 43, 70, 93	0
1	H	318/338 (94%)	-0.06	9 (2%) 56 55	28, 43, 72, 91	0
All	All	2548/2704 (94%)	0.07	89 (3%) 48 46	24, 44, 78, 120	0

The worst 5 of 89 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	70	VAL	7.5
1	E	70	VAL	6.3
1	B	236	ASN	5.8
1	F	144	THR	5.2
1	C	236	ASN	4.7

6.2 Non-standard residues in protein, DNA, RNA chains ⓘ

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates ⓘ

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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors(Å ²)	Q<0.9
2	RO8	H	1000	20/20	0.97	0.13	-0.34	49,55,63,77	0
2	RO8	F	1000	20/20	0.97	0.12	-0.48	50,55,61,70	0
2	RO8	E	1000	20/20	0.96	0.12	-0.70	43,51,61,63	0
2	RO8	G	1000	20/20	0.95	0.10	-0.78	40,50,68,75	0
2	RO8	C	1000	20/20	0.96	0.10	-0.89	33,43,62,66	0
2	RO8	D	1000	20/20	0.96	0.09	-0.89	35,40,58,61	0
2	RO8	A	1000	20/20	0.95	0.09	-1.23	34,43,61,63	0
2	RO8	B	1000	20/20	0.96	0.08	-2.26	41,48,63,63	0

6.5 Other polymers [i](#)

There are no such residues in this entry.