



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 9, 2026 – 10:57 AM UTC

PDB ID : 5HLZ / pdb_00005hlz
Title : Structure of Pro-Activin A Complex at 2.85 Å resolution
Authors : Wang, X.; Fischer, G.; Hyvonen, M.
Deposited on : 2016-01-15
Resolution : 2.85 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 Phenix2.0
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

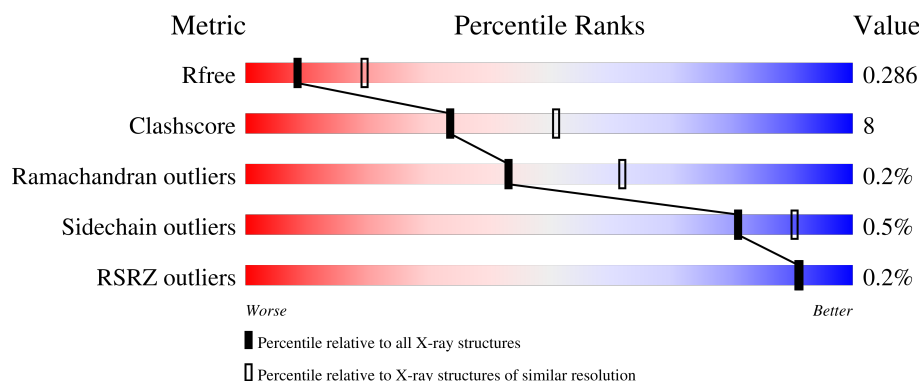
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.85 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	1407 (2.88-2.84)
Clashscore	190562	1446 (2.88-2.84)
Ramachandran outliers	187476	1406 (2.88-2.84)
Sidechain outliers	187428	1407 (2.88-2.84)
RSRZ outliers	180081	1408 (2.88-2.84)

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	270	 63% 13% 24%
1	C	270	 60% 15% 24%
1	E	270	 62% 14% 24%
1	G	270	 61% 14% 24%
2	B	116	 % 50% 23% 26%

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Mol	Chain	Length	Quality of chain
2	D	116	 55% 16% 29%
2	F	116	 53% 22% 26%
2	H	116	 53% 19% 28%

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 9163 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 Inhibin beta A chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	204	Total	C	N	O	S	0	0	0
			1626	1020	295	304	7			
1	C	204	Total	C	N	O	S	0	0	0
			1626	1020	295	304	7			
1	E	204	Total	C	N	O	S	0	0	0
			1626	1020	295	304	7			
1	G	204	Total	C	N	O	S	0	0	0
			1626	1020	295	304	7			

There are 176 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	20	MET	-	expression tag	UNP P08476
A	21	SER	-	expression tag	UNP P08476
A	22	HIS	-	expression tag	UNP P08476
A	23	HIS	-	expression tag	UNP P08476
A	24	HIS	-	expression tag	UNP P08476
A	25	HIS	-	expression tag	UNP P08476
A	26	HIS	-	expression tag	UNP P08476
A	27	HIS	-	expression tag	UNP P08476
A	28	SER	-	expression tag	UNP P08476
A	29	MET	-	expression tag	UNP P08476
A	35	SER	CYS	engineered mutation	UNP P08476
A	38	SER	CYS	engineered mutation	UNP P08476
A	?	-	LYS	deletion	UNP P08476
A	?	-	LYS	deletion	UNP P08476
A	?	-	LYS	deletion	UNP P08476
A	?	-	LYS	deletion	UNP P08476
A	?	-	LYS	deletion	UNP P08476
A	?	-	GLU	deletion	UNP P08476
A	?	-	GLU	deletion	UNP P08476
A	?	-	GLU	deletion	UNP P08476
A	?	-	GLY	deletion	UNP P08476

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Chain	Residue	Modelled	Actual	Comment	Reference
A	?	-	GLU	deletion	UNP P08476
A	?	-	GLY	deletion	UNP P08476
A	?	-	LYS	deletion	UNP P08476
A	?	-	LYS	deletion	UNP P08476
A	?	-	LYS	deletion	UNP P08476
A	?	-	GLY	deletion	UNP P08476
A	?	-	GLY	deletion	UNP P08476
A	?	-	GLY	deletion	UNP P08476
A	?	-	GLY	deletion	UNP P08476
A	?	-	GLY	deletion	UNP P08476
A	?	-	GLY	deletion	UNP P08476
A	?	-	ALA	deletion	UNP P08476
A	?	-	GLY	deletion	UNP P08476
A	?	-	ALA	deletion	UNP P08476
A	?	-	ASP	deletion	UNP P08476
A	306	LEU	-	cloning artifact	UNP P08476
A	307	GLU	-	cloning artifact	UNP P08476
A	308	VAL	-	cloning artifact	UNP P08476
A	309	LEU	-	cloning artifact	UNP P08476
A	310	PHE	-	cloning artifact	UNP P08476
A	310A	GLN	-	cloning artifact	UNP P08476
A	310B	GLY	-	cloning artifact	UNP P08476
A	310C	PRO	-	cloning artifact	UNP P08476
C	20	MET	-	expression tag	UNP P08476
C	21	SER	-	expression tag	UNP P08476
C	22	HIS	-	expression tag	UNP P08476
C	23	HIS	-	expression tag	UNP P08476
C	24	HIS	-	expression tag	UNP P08476
C	25	HIS	-	expression tag	UNP P08476
C	26	HIS	-	expression tag	UNP P08476
C	27	HIS	-	expression tag	UNP P08476
C	28	SER	-	expression tag	UNP P08476
C	29	MET	-	expression tag	UNP P08476
C	35	SER	CYS	engineered mutation	UNP P08476
C	38	SER	CYS	engineered mutation	UNP P08476
C	?	-	LYS	deletion	UNP P08476
C	?	-	LYS	deletion	UNP P08476
C	?	-	LYS	deletion	UNP P08476
C	?	-	LYS	deletion	UNP P08476
C	?	-	LYS	deletion	UNP P08476
C	?	-	GLU	deletion	UNP P08476
C	?	-	GLU	deletion	UNP P08476

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Chain	Residue	Modelled	Actual	Comment	Reference
C	?	-	GLU	deletion	UNP P08476
C	?	-	GLY	deletion	UNP P08476
C	?	-	GLU	deletion	UNP P08476
C	?	-	GLY	deletion	UNP P08476
C	?	-	LYS	deletion	UNP P08476
C	?	-	LYS	deletion	UNP P08476
C	?	-	LYS	deletion	UNP P08476
C	?	-	GLY	deletion	UNP P08476
C	?	-	GLY	deletion	UNP P08476
C	?	-	GLY	deletion	UNP P08476
C	?	-	GLU	deletion	UNP P08476
C	?	-	GLY	deletion	UNP P08476
C	?	-	GLY	deletion	UNP P08476
C	?	-	ALA	deletion	UNP P08476
C	?	-	GLY	deletion	UNP P08476
C	?	-	ALA	deletion	UNP P08476
C	?	-	ASP	deletion	UNP P08476
C	306	LEU	-	cloning artifact	UNP P08476
C	307	GLU	-	cloning artifact	UNP P08476
C	308	VAL	-	cloning artifact	UNP P08476
C	309	LEU	-	cloning artifact	UNP P08476
C	310	PHE	-	cloning artifact	UNP P08476
C	310A	GLN	-	cloning artifact	UNP P08476
C	310B	GLY	-	cloning artifact	UNP P08476
C	310C	PRO	-	cloning artifact	UNP P08476
E	20	MET	-	expression tag	UNP P08476
E	21	SER	-	expression tag	UNP P08476
E	22	HIS	-	expression tag	UNP P08476
E	23	HIS	-	expression tag	UNP P08476
E	24	HIS	-	expression tag	UNP P08476
E	25	HIS	-	expression tag	UNP P08476
E	26	HIS	-	expression tag	UNP P08476
E	27	HIS	-	expression tag	UNP P08476
E	28	SER	-	expression tag	UNP P08476
E	29	MET	-	expression tag	UNP P08476
E	35	SER	CYS	engineered mutation	UNP P08476
E	38	SER	CYS	engineered mutation	UNP P08476
E	?	-	LYS	deletion	UNP P08476
E	?	-	LYS	deletion	UNP P08476
E	?	-	LYS	deletion	UNP P08476
E	?	-	LYS	deletion	UNP P08476
E	?	-	LYS	deletion	UNP P08476

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Chain	Residue	Modelled	Actual	Comment	Reference
E	?	-	GLU	deletion	UNP P08476
E	?	-	GLU	deletion	UNP P08476
E	?	-	GLU	deletion	UNP P08476
E	?	-	GLY	deletion	UNP P08476
E	?	-	GLU	deletion	UNP P08476
E	?	-	GLY	deletion	UNP P08476
E	?	-	LYS	deletion	UNP P08476
E	?	-	LYS	deletion	UNP P08476
E	?	-	LYS	deletion	UNP P08476
E	?	-	GLY	deletion	UNP P08476
E	?	-	GLY	deletion	UNP P08476
E	?	-	GLY	deletion	UNP P08476
E	?	-	GLU	deletion	UNP P08476
E	?	-	GLY	deletion	UNP P08476
E	?	-	GLY	deletion	UNP P08476
E	?	-	ALA	deletion	UNP P08476
E	?	-	GLY	deletion	UNP P08476
E	?	-	ALA	deletion	UNP P08476
E	?	-	ASP	deletion	UNP P08476
E	306	LEU	-	cloning artifact	UNP P08476
E	307	GLU	-	cloning artifact	UNP P08476
E	308	VAL	-	cloning artifact	UNP P08476
E	309	LEU	-	cloning artifact	UNP P08476
E	310	PHE	-	cloning artifact	UNP P08476
E	310A	GLN	-	cloning artifact	UNP P08476
E	310B	GLY	-	cloning artifact	UNP P08476
E	310C	PRO	-	cloning artifact	UNP P08476
G	20	MET	-	expression tag	UNP P08476
G	21	SER	-	expression tag	UNP P08476
G	22	HIS	-	expression tag	UNP P08476
G	23	HIS	-	expression tag	UNP P08476
G	24	HIS	-	expression tag	UNP P08476
G	25	HIS	-	expression tag	UNP P08476
G	26	HIS	-	expression tag	UNP P08476
G	27	HIS	-	expression tag	UNP P08476
G	28	SER	-	expression tag	UNP P08476
G	29	MET	-	expression tag	UNP P08476
G	35	SER	CYS	engineered mutation	UNP P08476
G	38	SER	CYS	engineered mutation	UNP P08476
G	?	-	LYS	deletion	UNP P08476
G	?	-	LYS	deletion	UNP P08476
G	?	-	LYS	deletion	UNP P08476

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Chain	Residue	Modelled	Actual	Comment	Reference
G	?	-	LYS	deletion	UNP P08476
G	?	-	LYS	deletion	UNP P08476
G	?	-	GLU	deletion	UNP P08476
G	?	-	GLU	deletion	UNP P08476
G	?	-	GLU	deletion	UNP P08476
G	?	-	GLY	deletion	UNP P08476
G	?	-	GLU	deletion	UNP P08476
G	?	-	GLY	deletion	UNP P08476
G	?	-	LYS	deletion	UNP P08476
G	?	-	LYS	deletion	UNP P08476
G	?	-	LYS	deletion	UNP P08476
G	?	-	GLY	deletion	UNP P08476
G	?	-	GLY	deletion	UNP P08476
G	?	-	GLU	deletion	UNP P08476
G	?	-	GLY	deletion	UNP P08476
G	?	-	GLY	deletion	UNP P08476
G	?	-	ALA	deletion	UNP P08476
G	?	-	GLY	deletion	UNP P08476
G	?	-	ALA	deletion	UNP P08476
G	?	-	ASP	deletion	UNP P08476
G	306	LEU	-	cloning artifact	UNP P08476
G	307	GLU	-	cloning artifact	UNP P08476
G	308	VAL	-	cloning artifact	UNP P08476
G	309	LEU	-	cloning artifact	UNP P08476
G	310	PHE	-	cloning artifact	UNP P08476
G	310A	GLN	-	cloning artifact	UNP P08476
G	310B	GLY	-	cloning artifact	UNP P08476
G	310C	PRO	-	cloning artifact	UNP P08476

- Molecule 2 is a protein called Inhibin beta A chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	86	Total	C	N	O	S	0	0	0
			674	425	109	128	12			
2	D	82	Total	C	N	O	S	0	0	0
			644	405	104	123	12			
2	F	86	Total	C	N	O	S	0	0	0
			674	425	109	128	12			
2	H	84	Total	C	N	O	S	0	0	0
			657	413	106	126	12			

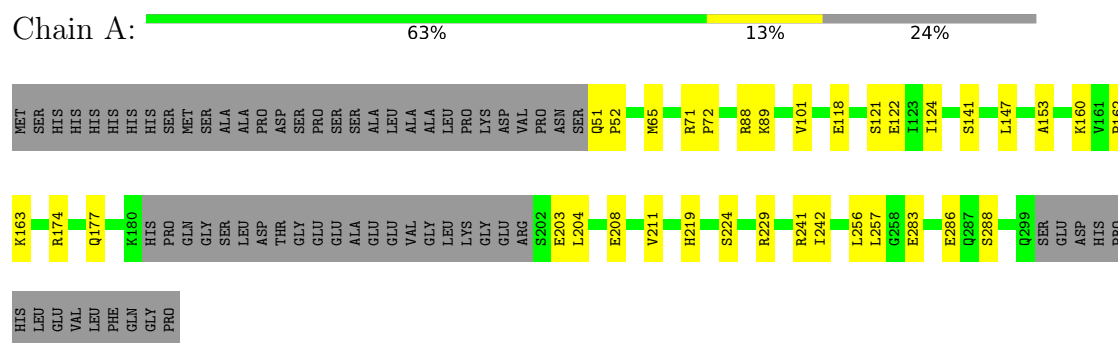
- Molecule 3 is water.

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

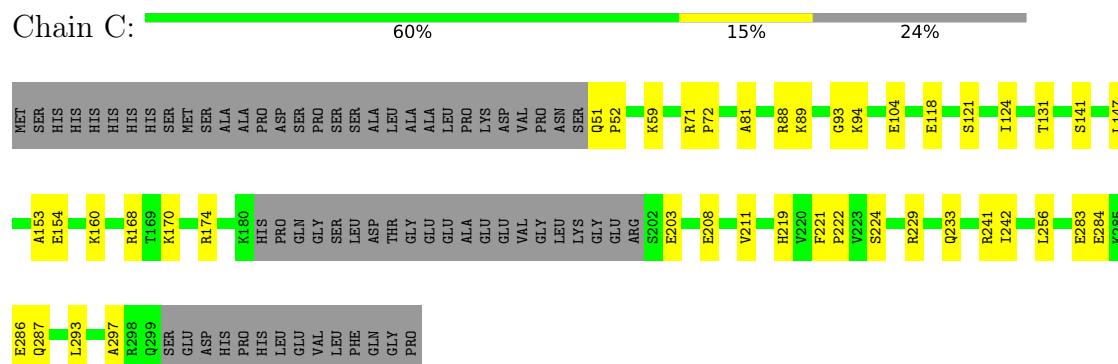
3 Residue-property plots [i](#)

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.

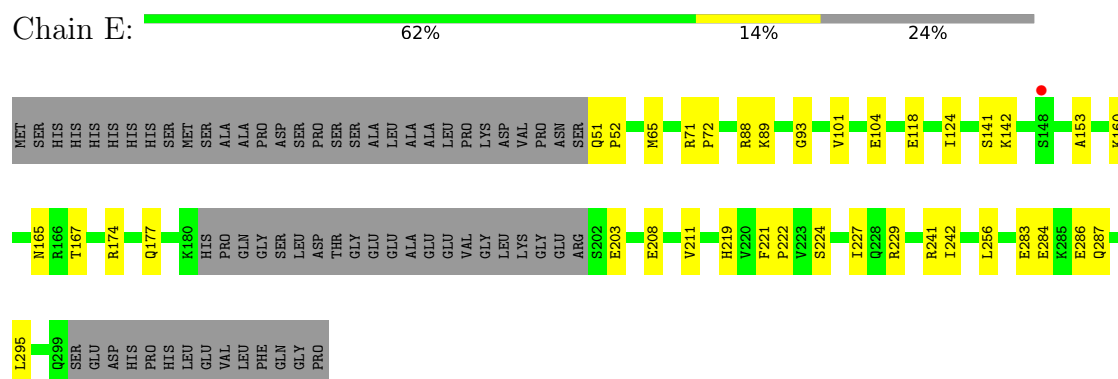
• Molecule 1: Inhibin beta A chain



• Molecule 1: Inhibin beta A chain



• Molecule 1: Inhibin beta A chain



D405	D406	N409	I410	Q416	M417	M418	C423	S426
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4 Data and refinement statistics

Property	Value	Source
Space group	P 31	Depositor
Cell constants a, b, c, α , β , γ	47.23Å 47.23Å 445.43Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	40.90 – 2.85 40.90 – 2.85	Depositor EDS
% Data completeness (in resolution range)	99.7 (40.90-2.85) 92.7 (40.90-2.85)	Depositor EDS
R_{merge}	0.11	Depositor
R_{sym}	0.14	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.23 (at 2.86Å)	Xtriage
Refinement program	PHENIX (1.10pre_2084: ???)	Depositor
R, R_{free}	0.220 , 0.274 0.229 , 0.286	Depositor DCC
R_{free} test set	1338 reflections (5.15%)	wwPDB-VP
Wilson B-factor (Å ²)	62.1	Xtriage
Anisotropy	0.427	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 149.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.467 for -h,-k,l 0.469 for h,-h-k,-l 0.469 for -k,-h,-l	Xtriage
F_o, F_c correlation	0.91	EDS
Total number of atoms	9163	wwPDB-VP
Average B, all atoms (Å ²)	69.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.78% 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](#)

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	0.32	0/1648	0.73	0/2214
1	C	0.32	0/1648	0.74	0/2214
1	E	0.34	0/1648	0.73	0/2214
1	G	0.34	0/1648	0.73	0/2214
2	B	0.31	0/688	0.68	0/923
2	D	0.32	0/657	0.75	1/881 (0.1%)
2	F	0.33	0/688	0.70	0/923
2	H	0.34	0/671	0.72	0/901
All	All	0.33	0/9296	0.73	1/12484 (0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	D	317	LYS	N-CA-C	6.33	120.85	113.20

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	1626	0	1676	24	0
1	C	1626	0	1676	28	0
1	E	1626	0	1676	24	0
1	G	1626	0	1676	24	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	B	674	0	640	21	0
2	D	644	0	604	14	0
2	F	674	0	640	17	0
2	H	657	0	616	17	0
3	A	2	0	0	0	0
3	C	2	0	0	1	0
3	E	2	0	0	0	0
3	G	4	0	0	1	0
All	All	9163	0	9204	142	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 8.

The worst 5 of 142 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:H:393:PRO:HA	2:H:423:CYS:HB3	1.57	0.86
2:F:393:PRO:HA	2:F:423:CYS:HB3	1.58	0.83
2:D:393:PRO:HA	2:D:423:CYS:HB3	1.59	0.82
2:F:405:ASP:OD2	1:G:141:SER:OG	2.00	0.80
2:B:392:VAL:HG21	2:D:392:VAL:HG21	1.63	0.79

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	200/270 (74%)	194 (97%)	6 (3%)	0	100	100
1	C	200/270 (74%)	196 (98%)	4 (2%)	0	100	100
1	E	200/270 (74%)	194 (97%)	6 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	G	200/270 (74%)	194 (97%)	6 (3%)	0	100	100
2	B	82/116 (71%)	79 (96%)	3 (4%)	0	100	100
2	D	78/116 (67%)	76 (97%)	2 (3%)	0	100	100
2	F	82/116 (71%)	80 (98%)	1 (1%)	1 (1%)	10	22
2	H	80/116 (69%)	76 (95%)	3 (4%)	1 (1%)	9	21
All	All	1122/1544 (73%)	1089 (97%)	31 (3%)	2 (0%)	43	62

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	F	316	GLY
2	H	316	GLY

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	182/237 (77%)	180 (99%)	2 (1%)	65	81
1	C	182/237 (77%)	182 (100%)	0	100	100
1	E	182/237 (77%)	182 (100%)	0	100	100
1	G	182/237 (77%)	181 (100%)	1 (0%)	81	90
2	B	77/102 (76%)	76 (99%)	1 (1%)	61	79
2	D	73/102 (72%)	73 (100%)	0	100	100
2	F	77/102 (76%)	77 (100%)	0	100	100
2	H	75/102 (74%)	74 (99%)	1 (1%)	61	79
All	All	1030/1356 (76%)	1025 (100%)	5 (0%)	81	90

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

Mol	Chain	Res	Type
1	A	204	LEU

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Mol	Chain	Res	Type
1	A	257	LEU
2	B	423	CYS
2	H	418	MET
1	G	95	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 6 such sidechains are listed below:

Mol	Chain	Res	Type
2	D	319	ASN
1	E	85	ASN
1	G	289	HIS
1	A	85	ASN
1	A	64	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](#)

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](#)

There are no ligands in this entry.

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	204/270 (75%)	-0.63	0 100 100	35, 62, 95, 130	0
1	C	204/270 (75%)	-0.64	0 100 100	37, 62, 94, 126	0
1	E	204/270 (75%)	-0.62	1 (0%) 87 85	38, 62, 99, 119	0
1	G	204/270 (75%)	-0.63	0 100 100	36, 61, 97, 127	0
2	B	86/116 (74%)	-0.40	1 (1%) 76 71	48, 80, 120, 133	0
2	D	82/116 (70%)	-0.48	0 100 100	47, 78, 120, 132	0
2	F	86/116 (74%)	-0.57	0 100 100	46, 82, 124, 137	0
2	H	84/116 (72%)	-0.45	0 100 100	46, 82, 124, 133	0
All	All	1154/1544 (74%)	-0.59	2 (0%) 91 91	35, 65, 113, 137	0

All (2) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	E	148	SER	2.3
2	B	355	PRO	2.2

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](#)

There are no ligands in this entry.

6.5 Other polymers [i](#)

There are no such residues in this entry.