



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 10:42 AM UTC

PDB ID : 6ZBT / pdb_00006zbt
Title : Structure of 14-3-3 gamma in complex with Nedd4-2 14-3-3 binding motif Ser342
Authors : Joshi, R.; Kalabova, D.; Obsil, T.; Obsilova, V.
Deposited on : 2020-06-09
Resolution : 1.80 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 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

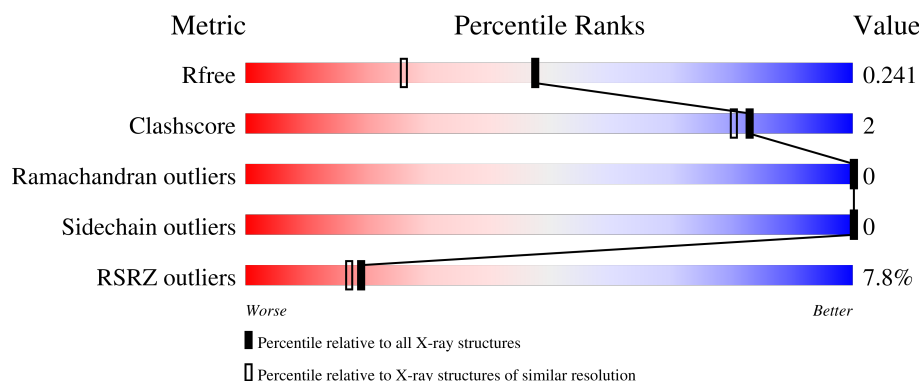
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.80 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	7662 (1.80-1.80)
Clashscore	190562	8479 (1.80-1.80)
Ramachandran outliers	187476	8391 (1.80-1.80)
Sidechain outliers	187428	8390 (1.80-1.80)
RSRZ outliers	180081	7663 (1.80-1.80)

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	234	7% 94% 6%
1	B	234	7% 88% 9%
1	C	234	7% 94% •
1	D	234	7% 95% •
2	E	10	20% 50% 20% 30%

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Mol	Chain	Length	Quality of chain
2	F	10	
2	G	10	
2	H	10	

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 8014 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.

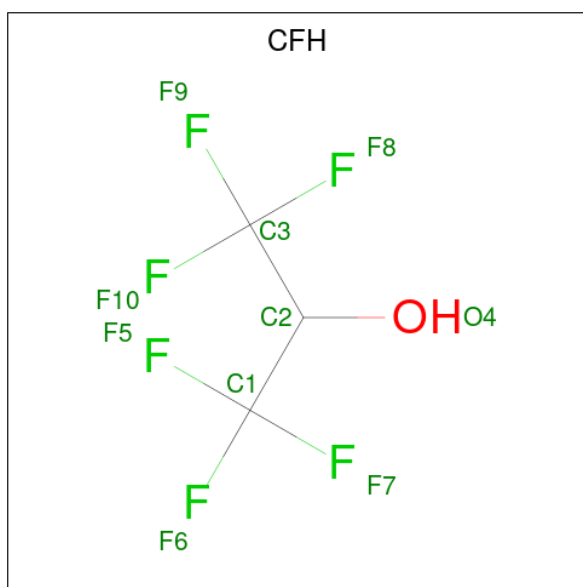
- Molecule 1 is a protein called 14-3-3 protein gamma.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	232	Total	C	N	O	S		0	0	0
			1802	1131	313	349	9				
1	B	227	Total	C	N	O	S		0	0	0
			1776	1114	305	348	9				
1	C	227	Total	C	N	O	S		0	0	0
			1776	1116	305	346	9				
1	D	229	Total	C	N	O	S		0	0	0
			1792	1123	310	351	8				

- Molecule 2 is a protein called E3 ubiquitin-protein ligase NEDD4-like.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
2	E	7	Total	C	N	O	P	S	0	0	0
			49	27	7	13	1	1			
2	F	7	Total	C	N	O	P	S	0	0	0
			55	30	10	13	1	1			
2	G	6	Total	C	N	O	P	S	0	0	0
			41	21	6	12	1	1			
2	H	6	Total	C	N	O	P	S	0	0	0
			41	21	6	12	1	1			

- Molecule 3 is 1,1,1,3,3,3-hexafluoropropan-2-ol (CCD ID: CFH) (formula: C₃H₂F₆O).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	F	O	0	0
			10	3	6	1		
3	A	1	Total	C	F	O	0	0
			10	3	6	1		
3	B	1	Total	C	F	O	0	0
			10	3	6	1		
3	D	1	Total	C	F	O	0	0
			10	3	6	1		

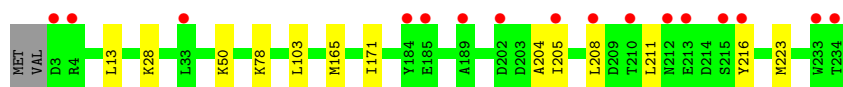
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	148	Total	O	0	0
			148	148		
4	B	174	Total	O	0	0
			174	174		
4	C	170	Total	O	0	0
			170	170		
4	D	135	Total	O	0	0
			135	135		
4	E	3	Total	O	0	0
			3	3		
4	F	6	Total	O	0	0
			6	6		
4	G	4	Total	O	0	0
			4	4		
4	H	2	Total	O	0	0
			2	2		

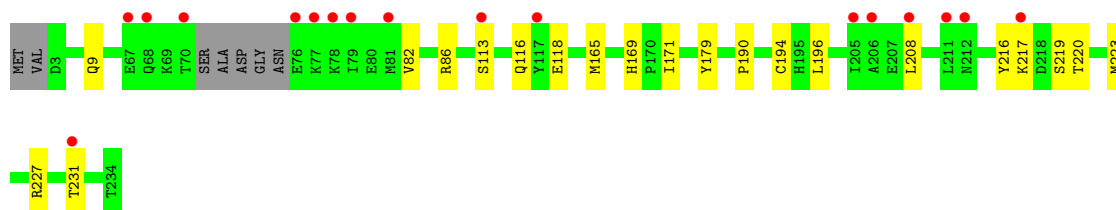
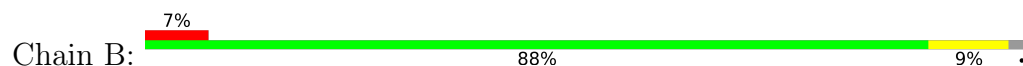
3 Residue-property plots [i](#)

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.

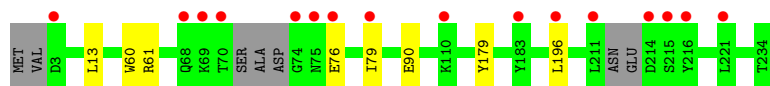
- Molecule 1: 14-3-3 protein gamma



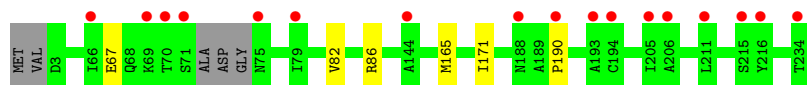
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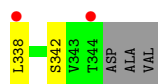


- Molecule 1: 14-3-3 protein gamma

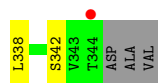


- Molecule 2: E3 ubiquitin-protein ligase NEDD4-like

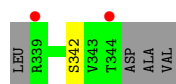




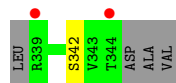
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4 Data and refinement statistics

Property	Value	Source
Space group	H 3	Depositor
Cell constants a, b, c, α , β , γ	205.86Å 205.86Å 74.35Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	27.51 – 1.80 27.51 – 1.80	Depositor EDS
% Data completeness (in resolution range)	99.9 (27.51-1.80) 99.9 (27.51-1.80)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	0.99 (at 1.79Å)	Xtriage
Refinement program	PHENIX 1.12_2829, PHENIX 1.12_2829	Depositor
R, R_{free}	0.210 , 0.241 0.210 , 0.241	Depositor DCC
R_{free} test set	2101 reflections (1.93%)	wwPDB-VP
Wilson B-factor (Å ²)	31.6	Xtriage
Anisotropy	0.310	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 39.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.51$, $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	0.004 for h,-h-k,-l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	8014	wwPDB-VP
Average B, all atoms (Å ²)	36.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.33% 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: CFH, SEP

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	0.13	0/1829	0.32	0/2475
1	B	0.15	0/1803	0.32	0/2441
1	C	0.14	0/1801	0.34	0/2433
1	D	0.13	0/1819	0.30	0/2463
2	E	0.12	0/37	0.27	0/48
2	F	0.17	0/43	0.40	0/55
2	G	0.12	0/29	0.16	0/37
2	H	0.12	0/29	0.16	0/37
All	All	0.14	0/7390	0.32	0/9989

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	1802	0	1744	8	0
1	B	1776	0	1701	19	0
1	C	1776	0	1718	7	0
1	D	1792	0	1710	4	0
2	E	49	0	41	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	F	55	0	52	3	0
2	G	41	0	30	0	0
2	H	41	0	30	0	0
3	A	20	0	4	0	0
3	B	10	0	2	0	0
3	D	10	0	2	0	0
4	A	148	0	0	1	0
4	B	174	0	0	0	0
4	C	170	0	0	2	0
4	D	135	0	0	0	0
4	E	3	0	0	0	0
4	F	6	0	0	0	0
4	G	4	0	0	0	0
4	H	2	0	0	0	0
All	All	8014	0	7034	35	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 2.

All (35) 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:13:LEU:HD11	1:B:82:VAL:HG22	1.67	0.76
1:D:190:PRO:HB2	2:E:338:LEU:HD11	1.72	0.72
1:B:113:SER:H	1:B:116:GLN:HE21	1.40	0.68
1:B:165:MET:HE1	1:B:171:ILE:HB	1.78	0.65
1:B:194:CYS:HG	2:F:338:LEU:N	1.95	0.65
1:B:86:ARG:HH11	1:B:86:ARG:HG2	1.65	0.61
1:A:205:ILE:HA	1:A:208:LEU:HG	1.85	0.58
1:C:13:LEU:HD11	1:D:82:VAL:HG22	1.89	0.54
1:A:165:MET:HE1	1:A:171:ILE:HB	1.90	0.52
1:B:190:PRO:HB2	2:F:338:LEU:HD11	1.92	0.51
1:B:179:TYR:HB3	1:B:196:LEU:HD21	1.91	0.51
1:A:204:ALA:HB1	1:A:223:MET:HE2	1.92	0.51
1:D:165:MET:HE1	1:D:171:ILE:HB	1.93	0.50
1:B:113:SER:H	1:B:116:GLN:NE2	2.07	0.50
1:C:61:ARG:NH2	4:C:306:HOH:O	2.45	0.49
1:C:76:GLU:HA	1:C:79:ILE:HG22	1.95	0.48
1:B:165:MET:HE2	1:B:169:HIS:CG	2.50	0.47
1:C:179:TYR:HB3	1:C:196:LEU:HD21	1.95	0.47
1:B:86:ARG:HG2	1:B:86:ARG:NH1	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:113:SER:HB2	1:B:116:GLN:HG3	1.97	0.44
1:B:227:ARG:O	1:B:231:THR:HG23	2.18	0.44
1:B:217:LYS:HA	1:B:217:LYS:HD2	1.76	0.43
1:C:196:LEU:HD11	4:C:309:HOH:O	2.19	0.43
1:A:50:LYS:HE2	4:A:494:HOH:O	2.18	0.43
1:C:79:ILE:HD12	1:C:79:ILE:HA	1.89	0.43
1:B:219:SER:O	1:B:223:MET:HG3	2.19	0.42
1:B:118:GLU:HG2	1:B:171:ILE:HD12	2.00	0.42
1:D:67:GLU:OE1	1:D:86:ARG:NE	2.52	0.42
1:A:211:LEU:HD22	1:A:216:TYR:HA	2.02	0.41
1:A:28:LYS:HG3	1:A:103:LEU:HD11	2.01	0.41
1:B:194:CYS:SG	2:F:338:LEU:N	2.93	0.41
1:B:208:LEU:HD12	1:B:208:LEU:HA	1.85	0.41
1:A:78:LYS:HE2	1:B:9:GLN:NE2	2.35	0.41
1:B:216:TYR:O	1:B:220:THR:OG1	2.26	0.41
1:C:60:TRP:CD1	1:C:90:GLU:HG3	2.57	0.40

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	230/234 (98%)	228 (99%)	2 (1%)	0	100	100
1	B	223/234 (95%)	222 (100%)	1 (0%)	0	100	100
1	C	221/234 (94%)	218 (99%)	3 (1%)	0	100	100
1	D	225/234 (96%)	223 (99%)	2 (1%)	0	100	100
2	E	4/10 (40%)	4 (100%)	0	0	100	100
2	F	4/10 (40%)	4 (100%)	0	0	100	100
2	G	3/10 (30%)	3 (100%)	0	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	H	3/10 (30%)	3 (100%)	0	0	100	100
All	All	913/976 (94%)	905 (99%)	8 (1%)	0	100	100

There are no Ramachandran outliers to report.

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	184/206 (89%)	184 (100%)	0	100	100
1	B	183/206 (89%)	183 (100%)	0	100	100
1	C	183/206 (89%)	183 (100%)	0	100	100
1	D	183/206 (89%)	183 (100%)	0	100	100
2	E	5/8 (62%)	5 (100%)	0	100	100
2	F	6/8 (75%)	6 (100%)	0	100	100
2	G	4/8 (50%)	4 (100%)	0	100	100
2	H	4/8 (50%)	4 (100%)	0	100	100
All	All	752/856 (88%)	752 (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 (7) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	164	HIS
1	A	192	GLN
1	B	116	GLN
1	B	195	HIS
1	C	16	GLN
1	D	158	HIS
1	D	192	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

4 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
2	SEP	E	342	2	8,9,10	1.52	1 (12%)	7,12,14	0.88	0
2	SEP	F	342	2	8,9,10	1.55	1 (12%)	7,12,14	1.03	1 (14%)
2	SEP	G	342	2	8,9,10	1.58	1 (12%)	7,12,14	0.85	0
2	SEP	H	342	2	8,9,10	1.63	1 (12%)	7,12,14	1.02	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	SEP	E	342	2	-	0/6/8/10	-
2	SEP	F	342	2	-	0/6/8/10	-
2	SEP	G	342	2	-	0/6/8/10	-
2	SEP	H	342	2	-	0/6/8/10	-

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	H	342	SEP	P-O1P	3.55	1.61	1.50
2	G	342	SEP	P-O1P	3.46	1.61	1.50
2	F	342	SEP	P-O1P	3.44	1.61	1.50
2	E	342	SEP	P-O1P	3.34	1.60	1.50

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	F	342	SEP	OG-P-O1P	2.08	112.06	106.44

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

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	$\# Z > 2$
3	CFH	D	301	-	9,9,9	1.17	0	15,15,15	0.90	0
3	CFH	A	301	-	9,9,9	1.17	0	15,15,15	0.77	0
3	CFH	A	302	-	9,9,9	1.15	0	15,15,15	0.78	0
3	CFH	B	301	-	9,9,9	1.16	0	15,15,15	0.76	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
3	CFH	D	301	-	-	0/12/12/12	-
3	CFH	A	301	-	-	12/12/12/12	-
3	CFH	A	302	-	-	6/12/12/12	-
3	CFH	B	301	-	-	0/12/12/12	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (18) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	301	CFH	C1-C2-C3-F10
3	A	301	CFH	C1-C2-C3-F8
3	A	301	CFH	C1-C2-C3-F9
3	A	301	CFH	O4-C2-C3-F9
3	A	301	CFH	O4-C2-C3-F10
3	A	301	CFH	O4-C2-C3-F8
3	A	302	CFH	O4-C2-C3-F8
3	A	302	CFH	C1-C2-C3-F8
3	A	302	CFH	C1-C2-C3-F9
3	A	302	CFH	C1-C2-C3-F10
3	A	302	CFH	O4-C2-C3-F10
3	A	302	CFH	O4-C2-C3-F9
3	A	301	CFH	F5-C1-C2-C3
3	A	301	CFH	F6-C1-C2-C3
3	A	301	CFH	F7-C1-C2-O4
3	A	301	CFH	F7-C1-C2-C3
3	A	301	CFH	F5-C1-C2-O4
3	A	301	CFH	F6-C1-C2-O4

There are no ring outliers.

No monomer is involved in short contacts.

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

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	232/234 (99%)	0.75	16 (6%) 23 21	26, 37, 53, 69	0
1	B	227/234 (97%)	0.51	17 (7%) 20 18	23, 31, 50, 65	0
1	C	227/234 (97%)	0.54	16 (7%) 22 21	23, 33, 50, 65	0
1	D	229/234 (97%)	0.82	17 (7%) 20 19	24, 36, 50, 63	0
2	E	6/10 (60%)	1.55	2 (33%) 1 1	35, 41, 52, 56	0
2	F	6/10 (60%)	1.10	1 (16%) 4 3	29, 31, 47, 51	0
2	G	5/10 (50%)	1.35	2 (40%) 1 0	32, 36, 45, 55	0
2	H	5/10 (50%)	2.05	2 (40%) 1 0	36, 44, 54, 58	0
All	All	937/976 (96%)	0.68	73 (7%) 19 17	23, 34, 51, 69	0

All (73) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	D	79	ILE	4.8
1	D	70	THR	4.7
1	B	206	ALA	4.6
1	D	234	THR	4.5
1	C	215	SER	4.3
1	B	70	THR	4.1
1	C	75	ASN	3.9
1	D	205	ILE	3.9
1	D	66	ILE	3.7
1	D	71	SER	3.7
1	D	211	LEU	3.6
1	C	3	ASP	3.6
2	H	344	THR	3.5
1	D	206	ALA	3.4
1	A	3	ASP	3.4
1	B	79	ILE	3.3

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Mol	Chain	Res	Type	RSRZ
1	C	110	LYS	3.2
1	A	184	TYR	3.1
1	C	214	ASP	3.1
1	A	215	SER	3.1
1	C	211	LEU	3.1
2	H	339	ARG	3.1
2	G	344	THR	3.0
1	B	211	LEU	3.0
1	C	216	TYR	3.0
1	C	79	ILE	3.0
1	C	76	GLU	3.0
1	A	212	ASN	3.0
1	B	68	GLN	2.9
1	A	233	TRP	2.9
1	D	75	ASN	2.9
1	D	194	CYS	2.9
1	D	188	ASN	2.8
1	C	69	LYS	2.8
2	F	344	THR	2.8
1	B	205	ILE	2.7
1	D	144	ALA	2.7
2	E	344	THR	2.6
1	B	76	GLU	2.6
1	B	208	LEU	2.6
1	C	183	TYR	2.6
1	A	208	LEU	2.5
1	B	78	LYS	2.5
1	C	221	LEU	2.5
1	D	69	LYS	2.5
1	D	215	SER	2.5
2	E	338	LEU	2.4
1	B	81	MET	2.3
1	B	67	GLU	2.3
1	A	202	ASP	2.3
1	C	196	LEU	2.3
1	A	234	THR	2.2
1	C	70	THR	2.2
1	B	77	LYS	2.2
1	B	217	LYS	2.2
1	B	113	SER	2.2
1	A	185	GLU	2.2
1	A	4	ARG	2.2

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Mol	Chain	Res	Type	RSRZ
1	B	212	ASN	2.2
1	A	189	ALA	2.1
1	C	74	GLY	2.1
1	A	33	LEU	2.1
1	D	190	PRO	2.1
1	A	205	ILE	2.1
1	D	216	TYR	2.1
1	D	193	ALA	2.1
1	B	231	THR	2.1
1	A	216	TYR	2.1
1	A	210	THR	2.1
1	A	213	GLU	2.0
1	C	68	GLN	2.0
1	B	117	TYR	2.0
2	G	339	ARG	2.0

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
2	SEP	E	342	10/11	0.97	0.08	28,30,33,35	0
2	SEP	F	342	10/11	0.98	0.06	23,25,27,28	0
2	SEP	H	342	10/11	0.98	0.05	29,33,36,41	0
2	SEP	G	342	10/11	0.99	0.04	23,27,31,32	0

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
3	CFH	A	302	10/10	0.80	0.13	44,54,58,63	0
3	CFH	A	301	10/10	0.81	0.12	47,54,63,69	0
3	CFH	B	301	10/10	0.94	0.07	40,44,45,46	0
3	CFH	D	301	10/10	0.95	0.07	38,42,45,50	0

6.5 Other polymers [i](#)

There are no such residues in this entry.