



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 5, 2026 – 04:40 PM UTC

PDB ID : 3RXY / pdb_00003rxy
Title : Crystal structure of NIF3 superfamily protein from *Sphaerobacter thermophilus*
Authors : Michalska, K.; Tesar, C.; Clancy, S.; Otwinowski, Z.; Joachimiak, A.; Midwest Center for Structural Genomics (MCSG)
Deposited on : 2011-05-10
Resolution : 2.00 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
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

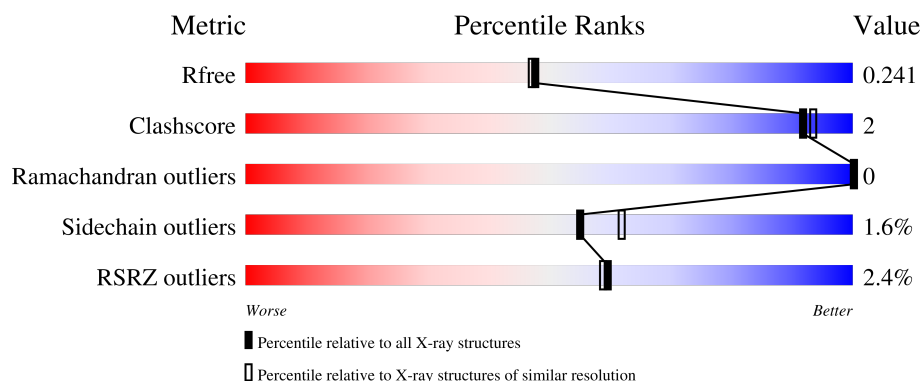
1 Overall quality at a glance

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.



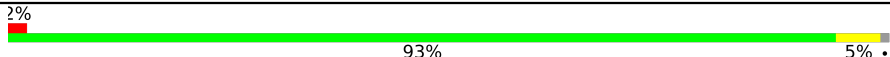
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	10052 (2.00-2.00)
Clashscore	190562	11152 (2.00-2.00)
Ramachandran outliers	187476	11031 (2.00-2.00)
Sidechain outliers	187428	11029 (2.00-2.00)
RSRZ outliers	180081	10067 (2.00-2.00)

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	278	2% 94% 5%
1	B	278	3% 95% 2%
1	C	278	2% 90% 8%
1	D	278	4% 92% 7%
1	E	278	0% 91% 7%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
1	F	278	 A horizontal bar chart showing the quality of the chain. The bar is divided into three segments: a small red segment at the beginning labeled '2%', a large green segment in the middle labeled '93%', and a small yellow segment at the end labeled '5%'. The segments are separated by thin black lines.

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 13169 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 NIF3 protein.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	276	Total	C	N	O	S	Se	0	0	0
			2067	1293	374	388	1	11			
1	B	276	Total	C	N	O	S	Se	0	1	0
			2078	1299	378	389	1	11			
1	C	275	Total	C	N	O	S	Se	0	0	0
			2062	1290	373	387	1	11			
1	D	275	Total	C	N	O	S	Se	0	1	0
			2073	1296	377	388	1	11			
1	E	275	Total	C	N	O	S	Se	0	1	0
			2070	1296	374	388	1	11			
1	F	275	Total	C	N	O	S	Se	0	1	0
			2073	1296	377	388	1	11			

There are 18 discrepancies between the modelled and reference sequences:

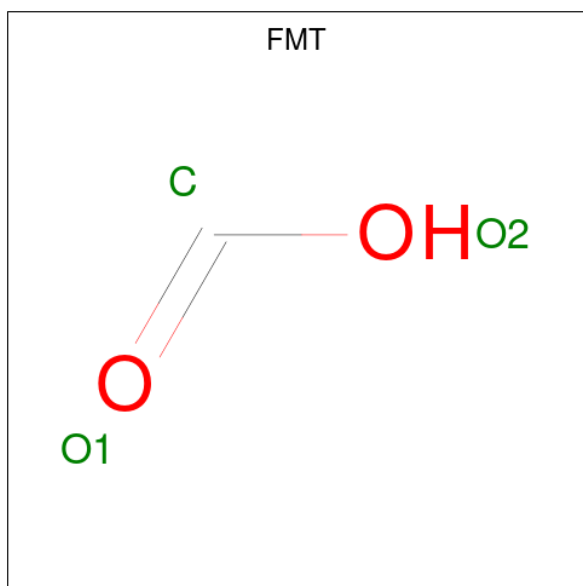
Chain	Residue	Modelled	Actual	Comment	Reference
A	-2	SER	-	expression tag	UNP D1C210
A	-1	ASN	-	expression tag	UNP D1C210
A	0	ALA	-	expression tag	UNP D1C210
B	-2	SER	-	expression tag	UNP D1C210
B	-1	ASN	-	expression tag	UNP D1C210
B	0	ALA	-	expression tag	UNP D1C210
C	-2	SER	-	expression tag	UNP D1C210
C	-1	ASN	-	expression tag	UNP D1C210
C	0	ALA	-	expression tag	UNP D1C210
D	-2	SER	-	expression tag	UNP D1C210
D	-1	ASN	-	expression tag	UNP D1C210
D	0	ALA	-	expression tag	UNP D1C210
E	-2	SER	-	expression tag	UNP D1C210
E	-1	ASN	-	expression tag	UNP D1C210
E	0	ALA	-	expression tag	UNP D1C210
F	-2	SER	-	expression tag	UNP D1C210
F	-1	ASN	-	expression tag	UNP D1C210

Continued on next page...

Continued from previous page...

Chain	Residue	Modelled	Actual	Comment	Reference
F	0	ALA	-	expression tag	UNP D1C210

- Molecule 2 is FORMIC ACID (CCD ID: FMT) (formula: CH₂O₂).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	C	O	0	0
			3	1	2		
2	A	1	Total	C	O	0	0
			3	1	2		
2	A	1	Total	C	O	0	0
			3	1	2		
2	B	1	Total	C	O	0	0
			3	1	2		
2	B	1	Total	C	O	0	0
			3	1	2		
2	B	1	Total	C	O	0	0
			3	1	2		
2	C	1	Total	C	O	0	0
			3	1	2		
2	C	1	Total	C	O	0	0
			3	1	2		
2	D	1	Total	C	O	0	0
			3	1	2		
2	D	1	Total	C	O	0	0
			3	1	2		
2	E	1	Total	C	O	0	0
			3	1	2		

Continued on next page...

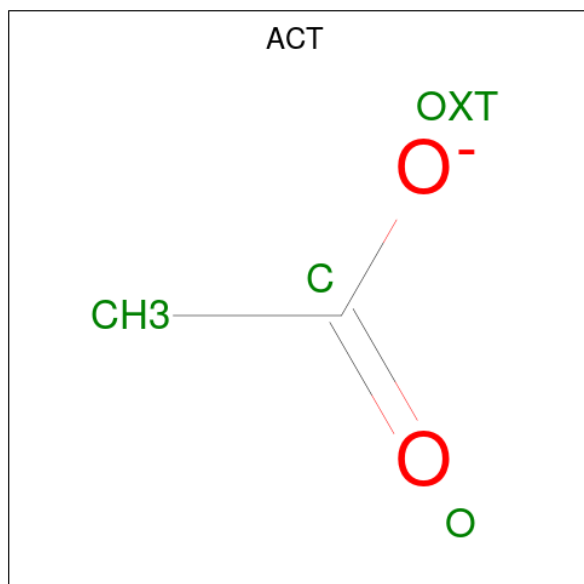
Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	E	1	Total	C	O	0	0
			3	1	2		
2	F	1	Total	C	O	0	0
			3	1	2		
2	F	1	Total	C	O	0	0
			3	1	2		

- Molecule 3 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	1	Total	Cl	0	0
			1	1		
3	B	2	Total	Cl	0	0
			2	2		
3	C	1	Total	Cl	0	0
			1	1		
3	D	1	Total	Cl	0	0
			1	1		
3	E	1	Total	Cl	0	0
			1	1		
3	F	1	Total	Cl	0	0
			1	1		

- Molecule 4 is ACETATE ION (CCD ID: ACT) (formula: C₂H₃O₂).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	F	1	Total	C	O	0	0
			4	2	2		

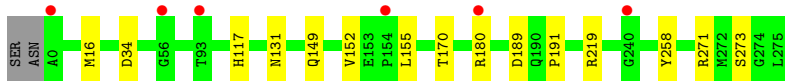
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	113	Total	O	0	3
			113	113		
5	B	115	Total	O	0	2
			116	116		
5	C	114	Total	O	0	1
			115	115		
5	D	110	Total	O	0	2
			110	110		
5	E	124	Total	O	0	2
			124	124		
5	F	115	Total	O	0	1
			115	115		

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: NIF3 protein



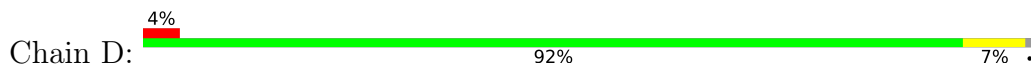
- Molecule 1: NIF3 protein



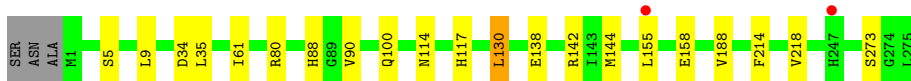
- Molecule 1: NIF3 protein



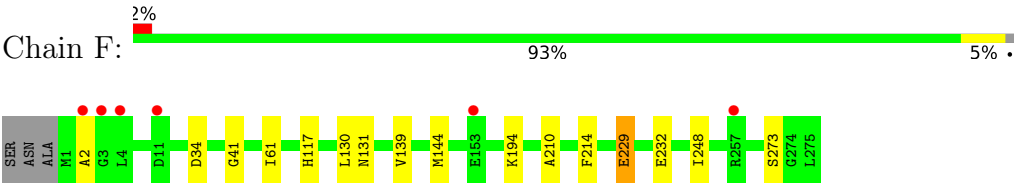
- Molecule 1: NIF3 protein



- Molecule 1: NIF3 protein



- Molecule 1: NIF3 protein



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	187.77Å 96.48Å 128.47Å 90.00° 115.28° 90.00°	Depositor
Resolution (Å)	38.37 – 2.00 38.37 – 2.00	Depositor EDS
% Data completeness (in resolution range)	(Not available) (38.37-2.00) 99.0 (38.37-2.00)	Depositor EDS
R_{merge}	0.13	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.69 (at 2.00Å)	Xtriage
Refinement program	BUSTER 2.8.0	Depositor
R, R_{free}	0.209 , 0.232 0.211 , 0.241	Depositor DCC
R_{free} test set	1374 reflections (0.98%)	wwPDB-VP
Wilson B-factor (Å ²)	23.4	Xtriage
Anisotropy	0.350	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.38 , 48.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	13169	wwPDB-VP
Average B, all atoms (Å ²)	28.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 22.56 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 5.5652e-03. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

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: ACT, FMT, CL

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	1.13	0/2088	1.24	3/2817 (0.1%)
1	B	1.09	1/2099 (0.0%)	1.25	3/2831 (0.1%)
1	C	1.16	1/2084 (0.0%)	1.23	2/2813 (0.1%)
1	D	1.12	1/2095 (0.0%)	1.29	3/2827 (0.1%)
1	E	1.18	4/2092 (0.2%)	1.27	2/2824 (0.1%)
1	F	1.18	2/2095 (0.1%)	1.22	7/2827 (0.2%)
All	All	1.14	9/12553 (0.1%)	1.25	20/16939 (0.1%)

The worst 5 of 9 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	90	VAL	CA-C	7.75	1.59	1.53
1	E	80	ARG	CA-C	5.88	1.60	1.52
1	F	210	ALA	CA-C	5.71	1.60	1.52
1	C	16	MSE	CA-C	5.66	1.60	1.52
1	F	144	MSE	SE-CE	-5.65	1.78	1.95

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

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	232	GLU	CB-CG-CD	7.38	125.15	112.60
1	E	34	ASP	CA-CB-CG	6.84	119.44	112.60
1	A	189	ASP	CA-CB-CG	6.64	119.24	112.60
1	D	34	ASP	CA-CB-CG	6.58	119.18	112.60
1	C	34	ASP	CA-CB-CG	6.44	119.04	112.60

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	2067	0	2098	7	0
1	B	2078	0	2110	5	0
1	C	2062	0	2093	14	0
1	D	2073	0	2105	8	0
1	E	2070	0	2103	8	0
1	F	2073	0	2105	6	0
2	A	9	0	3	0	0
2	B	9	0	3	0	0
2	C	6	0	2	0	0
2	D	6	0	2	0	0
2	E	6	0	2	0	0
2	F	6	0	2	0	0
3	A	1	0	0	0	0
3	B	2	0	0	0	0
3	C	1	0	0	0	0
3	D	1	0	0	0	0
3	E	1	0	0	0	0
3	F	1	0	0	0	0
4	F	4	0	3	0	0
5	A	113	0	0	2	0
5	B	116	0	0	0	0
5	C	115	0	0	1	0
5	D	110	0	0	1	0
5	E	124	0	0	1	0
5	F	115	0	0	0	0
All	All	13169	0	12631	39	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.

The worst 5 of 39 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:C:39:MSE:HE3	1:C:272:MSE:SE	2.51	0.60
1:C:248:ILE:HG13	1:D:114:ASN:HA	1.86	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:61:ILE:HG12	1:C:130:LEU:HD21	1.86	0.57
1:F:61:ILE:HG12	1:F:130:LEU:HD21	1.88	0.56
1:B:273:SER:HA	1:C:117:HIS:HA	1.88	0.55

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	274/278 (99%)	268 (98%)	6 (2%)	0	100	100
1	B	275/278 (99%)	267 (97%)	8 (3%)	0	100	100
1	C	273/278 (98%)	268 (98%)	5 (2%)	0	100	100
1	D	274/278 (99%)	269 (98%)	5 (2%)	0	100	100
1	E	274/278 (99%)	267 (97%)	7 (3%)	0	100	100
1	F	274/278 (99%)	268 (98%)	6 (2%)	0	100	100
All	All	1644/1668 (99%)	1607 (98%)	37 (2%)	0	100	100

There are no Ramachandran outliers to report.

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	214/205 (104%)	212 (99%)	2 (1%)	70	78
1	B	215/205 (105%)	213 (99%)	2 (1%)	70	78
1	C	214/205 (104%)	211 (99%)	3 (1%)	59	66
1	D	215/205 (105%)	209 (97%)	6 (3%)	38	41
1	E	215/205 (105%)	210 (98%)	5 (2%)	44	49
1	F	215/205 (105%)	212 (99%)	3 (1%)	59	66
All	All	1288/1230 (105%)	1267 (98%)	21 (2%)	55	62

5 of 21 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	E	130[B]	LEU
1	E	188	VAL
1	F	229	GLU
1	F	131	ASN
1	E	158	GLU

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	E	162	GLN
1	F	54	GLN
1	C	260	GLN
1	D	64	HIS
1	D	190	GLN

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 oligosaccharides in this entry.

5.6 Ligand geometry

Of 22 ligands modelled in this entry, 7 are monoatomic - leaving 15 for Mogul analysis.

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	FMT	B	276	-	2,2,2	0.74	0	1,1,1	1.04	0
2	FMT	F	279	-	2,2,2	0.75	0	1,1,1	0.04	0
2	FMT	C	276	-	2,2,2	0.42	0	1,1,1	0.06	0
2	FMT	D	276	-	2,2,2	0.72	0	1,1,1	1.24	0
2	FMT	A	278	-	2,2,2	0.37	0	1,1,1	0.62	0
2	FMT	B	277	-	2,2,2	0.79	0	1,1,1	0.20	0
2	FMT	E	276	-	2,2,2	0.89	0	1,1,1	1.84	0
2	FMT	E	278	-	2,2,2	0.74	0	1,1,1	0.71	0
4	ACT	F	278	-	3,3,3	1.22	1 (33%)	3,3,3	0.61	0
2	FMT	A	279	-	2,2,2	0.67	0	1,1,1	0.41	0
2	FMT	A	276	-	2,2,2	0.46	0	1,1,1	0.37	0
2	FMT	C	277	-	2,2,2	0.87	0	1,1,1	0.87	0
2	FMT	F	276	-	2,2,2	0.65	0	1,1,1	0.93	0
2	FMT	B	278	-	2,2,2	0.85	0	1,1,1	0.31	0
2	FMT	D	278	-	2,2,2	0.69	0	1,1,1	0.40	0

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	F	278	ACT	O-C	2.03	1.31	1.22

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

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 [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	265/278 (95%)	0.30	6 (2%) 61 60	17, 25, 45, 68	0
1	B	265/278 (95%)	0.25	7 (2%) 57 56	16, 27, 44, 71	1 (0%)
1	C	264/278 (94%)	0.28	6 (2%) 61 60	18, 25, 44, 57	0
1	D	264/278 (94%)	0.46	11 (4%) 40 39	18, 27, 47, 64	1 (0%)
1	E	264/278 (94%)	0.33	2 (0%) 82 82	12, 24, 42, 54	1 (0%)
1	F	264/278 (94%)	0.11	6 (2%) 61 60	12, 22, 38, 56	1 (0%)
All	All	1586/1668 (95%)	0.29	38 (2%) 59 59	12, 25, 44, 71	4 (0%)

The worst 5 of 38 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	0	ALA	5.2
1	F	2	ALA	5.1
1	B	0	ALA	4.6
1	D	155	LEU	4.0
1	C	2	ALA	3.8

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(Å ²)	Q<0.9
4	ACT	F	278	4/4	0.82	0.18	32,34,35,35	0
2	FMT	B	277	3/3	0.84	0.13	31,31,36,36	0
2	FMT	F	276	3/3	0.85	0.14	48,48,50,51	0
2	FMT	D	276	3/3	0.85	0.12	42,42,42,44	0
2	FMT	A	278	3/3	0.86	0.14	31,31,31,33	0
2	FMT	E	278	3/3	0.88	0.11	46,46,47,49	0
2	FMT	A	276	3/3	0.89	0.17	36,36,38,38	0
2	FMT	B	278	3/3	0.90	0.12	32,32,35,36	0
2	FMT	B	276	3/3	0.90	0.14	36,36,39,39	0
2	FMT	E	276	3/3	0.90	0.10	25,25,29,31	0
2	FMT	A	279	3/3	0.92	0.10	34,34,36,37	0
2	FMT	D	278	3/3	0.92	0.12	40,40,43,44	0
3	CL	A	277	1/1	0.93	0.11	41,41,41,41	0
3	CL	E	277	1/1	0.93	0.09	41,41,41,41	0
2	FMT	C	277	3/3	0.93	0.10	34,34,38,38	0
2	FMT	F	279	3/3	0.94	0.08	26,26,30,30	0
3	CL	B	800	1/1	0.94	0.09	46,46,46,46	0
2	FMT	C	276	3/3	0.95	0.06	31,31,33,34	0
3	CL	F	277	1/1	0.96	0.07	33,33,33,33	0
3	CL	B	279	1/1	0.96	0.08	42,42,42,42	0
3	CL	D	277	1/1	0.97	0.10	39,39,39,39	0
3	CL	C	278	1/1	0.97	0.08	34,34,34,34	0

6.5 Other polymers [i](#)

There are no such residues in this entry.