



wwPDB X-ray Structure Validation Summary Report

Feb 28, 2014 – 01:55 PM GMT

PDB ID : 3PW3
Title : Crystal structure of a cysteine protease (BDI_2249) from Parabacteroides distasonis ATCC 8503 at 2.23 Å resolution
Authors : Joint Center for Structural Genomics (JCSG)
Deposited on : 2010-12-07
Resolution : 2.23 Å (reported)

This is a wwPDB 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/ValidationPDFNotes.html>

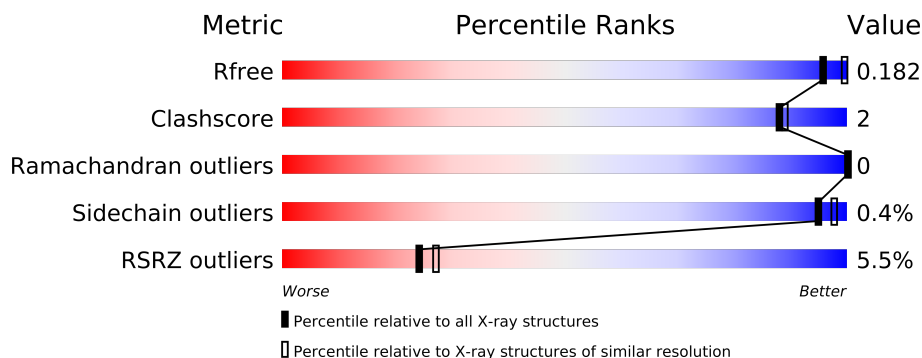
The following versions of software and data (see [references](#)) were used in the production of this report:

MolProbity	:	4.02b-467
Mogul	:	1.15 2013
Xtriage (Phenix)	:	dev-1323
EDS	:	stable22639
Percentile statistics	:	21963
Refmac	:	5.8.0049
CCP4	:	6.3.0 (Settle)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP)	:	stable22683

1 Overall quality at a glance

The reported resolution of this entry is 2.23 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}	66092	1112 (2.26-2.22)
Clashscore	79885	1317 (2.26-2.22)
Ramachandran outliers	78287	1282 (2.26-2.22)
Sidechain outliers	78261	1282 (2.26-2.22)
RSRZ outliers	66119	1112 (2.26-2.22)

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. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density.

Mol	Chain	Length	Quality of chain
1	A	383	
1	B	383	
1	C	383	
1	D	383	
1	E	383	
1	F	383	

The following table lists non-polymeric compounds that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Geometry	Electron density
3	K	F	413	-	X
4	CL	A	421	-	X

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Mol	Type	Chain	Res	Geometry	Electron density
5	EDO	A	428	-	X
5	EDO	A	431	-	X
5	EDO	A	434	-	X
5	EDO	A	435	-	X
5	EDO	A	436	-	X
5	EDO	B	433	-	X
5	EDO	B	439	-	X
5	EDO	C	432	-	X
5	EDO	C	440	-	X
5	EDO	D	437	-	X
5	EDO	F	429	-	X
5	EDO	F	430	-	X
6	ACT	B	441	-	X
6	ACT	F	442	-	X

2 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 19429 atoms, of which 0 are hydrogen and 0 are deuterium.

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 Aminopeptidase C.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	374	Total	C	N	O	S	Se	0	5	0
			2981	1897	487	579	3	15			
1	B	359	Total	C	N	O	S	Se	0	7	0
			2891	1848	471	553	3	16			
1	C	361	Total	C	N	O	S	Se	0	5	0
			2884	1843	465	557	3	16			
1	D	353	Total	C	N	O	S	Se	0	7	0
			2842	1815	460	549	3	15			
1	E	356	Total	C	N	O	S	Se	0	5	0
			2849	1820	464	547	3	15			
1	F	359	Total	C	N	O	S	Se	0	7	0
			2885	1843	468	556	3	15			

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	0	GLY	-	leader sequence	UNP A6LE66
B	0	GLY	-	leader sequence	UNP A6LE66
C	0	GLY	-	leader sequence	UNP A6LE66
D	0	GLY	-	leader sequence	UNP A6LE66
E	0	GLY	-	leader sequence	UNP A6LE66
F	0	GLY	-	leader sequence	UNP A6LE66

- Molecule 2 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	D	1	Total	Zn	0	0
			1	1		
2	E	1	Total	Zn	0	0
			1	1		
2	B	1	Total	Zn	0	0
			1	1		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	C	1	Total 1	Zn 1	0	0
2	A	1	Total 1	Zn 1	0	0
2	F	1	Total 1	Zn 1	0	0

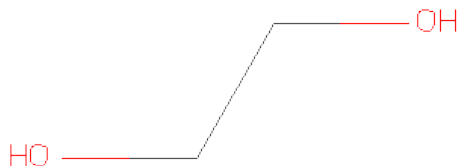
- Molecule 3 is POTASSIUM ION (three-letter code: K) (formula: K).

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

- Molecule 4 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

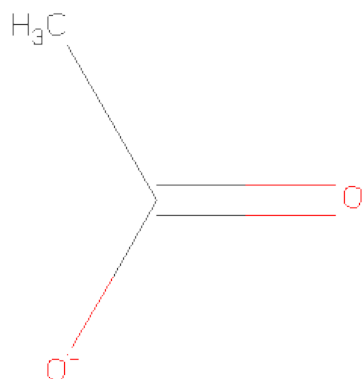
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	B	4	Total 5	Cl 5	0	1
4	A	1	Total 1	Cl 1	0	0
4	D	1	Total 1	Cl 1	0	0
4	F	2	Total 3	Cl 3	0	1
4	E	3	Total 4	Cl 4	0	1

- Molecule 5 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: C₂H₆O₂).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	A	1	Total	C	O	0	0
			4	2	2		
5	A	1	Total	C	O	0	0
			4	2	2		
5	A	1	Total	C	O	0	0
			4	2	2		
5	A	1	Total	C	O	0	0
			4	2	2		
5	A	1	Total	C	O	0	0
			4	2	2		
5	A	1	Total	C	O	0	0
			4	2	2		
5	B	1	Total	C	O	0	0
			4	2	2		
5	B	1	Total	C	O	0	0
			4	2	2		
5	C	1	Total	C	O	0	0
			4	2	2		
5	C	1	Total	C	O	0	0
			4	2	2		
5	D	1	Total	C	O	0	0
			4	2	2		
5	F	1	Total	C	O	0	0
			4	2	2		
5	F	1	Total	C	O	0	0
			4	2	2		

- Molecule 6 is ACETATE ION (three-letter code: ACT) (formula: C₂H₃O₂).



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

- Molecule 7 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	A	459	Total	O	0	1
			460	460		
7	B	382	Total	O	0	1
			382	382		
7	C	218	Total	O	0	1
			218	218		
7	D	282	Total	O	0	2
			284	284		
7	E	328	Total	O	0	0
			328	328		
7	F	334	Total	O	0	1
			335	335		

3 Residue-property plots

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.

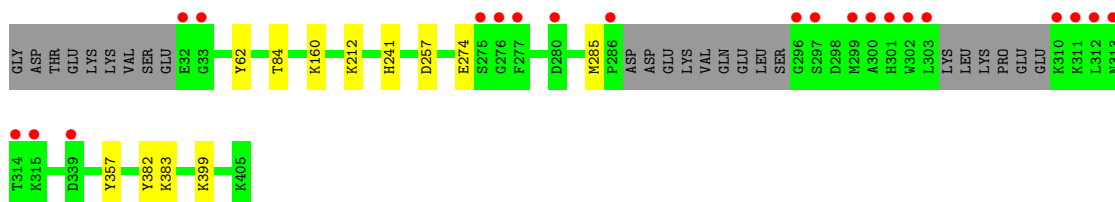
- Molecule 1: Aminopeptidase C

Chain A:



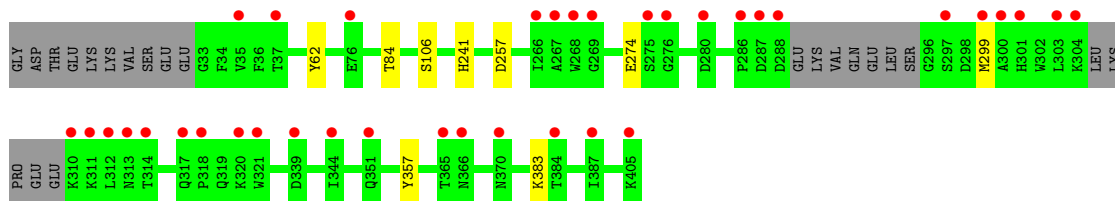
- Molecule 1: Aminopeptidase C

Chain B:



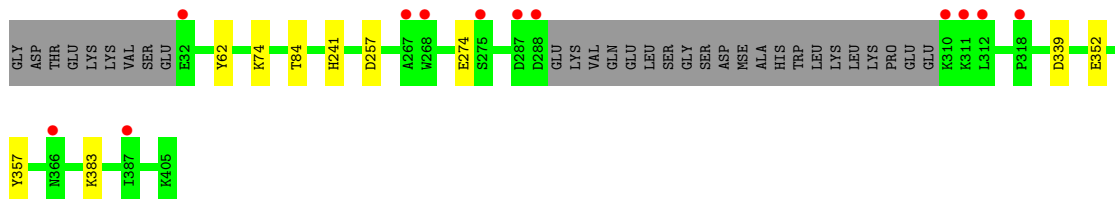
- Molecule 1: Aminopeptidase C

Chain C:



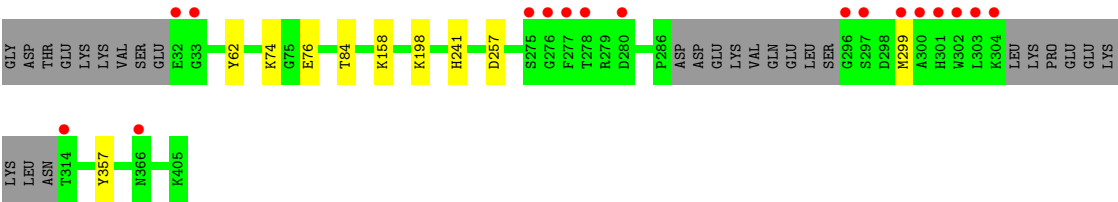
- Molecule 1: Aminopeptidase C

Chain D:



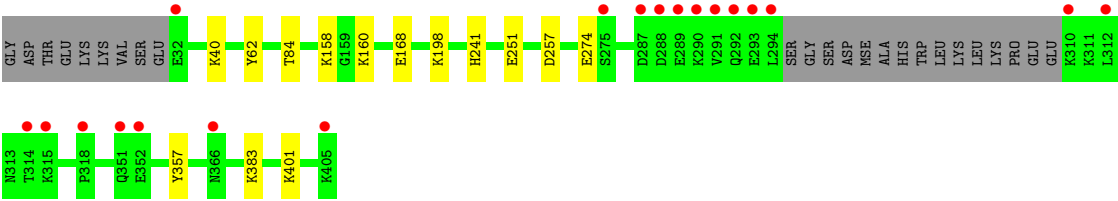
- Molecule 1: Aminopeptidase C

Chain E:



● Molecule 1: Aminopeptidase C

Chain F:



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	104.59Å 137.81Å 223.16Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	29.97 – 2.23 29.97 – 2.23	Depositor EDS
% Data completeness (in resolution range)	98.4 (29.97-2.23) 98.4 (29.97-2.23)	Depositor EDS
R_{merge}	0.07	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.37 (at 2.22Å)	Xtriage
Refinement program	REFMAC 5.6.0093	Depositor
R, R_{free}	0.159 , 0.181 0.160 , 0.182	Depositor DCC
R_{free} test set	7771 reflections (5.29%)	DCC
Wilson B-factor (Å ²)	33.9	Xtriage
Anisotropy	0.149	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 36.1	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Outliers	0 of 154750 reflections	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	19429	wwPDB-VP
Average B, all atoms (Å ²)	40.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.47% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: ZN, ACT, EDO, K, 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	0.68	0/3049	0.67	0/4109
1	B	0.61	0/2973	0.63	0/3998
1	C	0.54	0/2961	0.60	0/3988
1	D	0.57	0/2924	0.61	0/3941
1	E	0.60	0/2925	0.62	0/3936
1	F	0.59	1/2968 (0.0%)	0.62	0/3996
All	All	0.60	1/17800 (0.0%)	0.62	0/23968

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	168	GLU	CG-CD	6.00	1.60	1.51

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 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 hydrogens added by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, and the number in parentheses is this value normalized per 1000 atoms of the molecule in the chain. The Symm-Clashes column gives symmetry related clashes, in the same way as for the Clashes column.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2981	0	0	12	0
1	B	2891	0	0	7	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	C	2884	0	0	5	0
1	D	2842	0	0	6	0
1	E	2849	0	0	6	0
1	F	2885	0	0	7	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
2	C	1	0	0	0	0
2	D	1	0	0	0	0
2	E	1	0	0	0	0
2	F	1	0	0	0	0
3	A	2	0	0	0	0
3	B	1	0	0	0	0
3	C	2	0	0	0	0
3	D	2	0	0	0	0
3	E	1	0	0	0	0
3	F	2	0	0	0	0
4	A	1	0	0	0	0
4	B	5	0	0	0	0
4	D	1	0	0	0	0
4	E	4	0	0	0	0
4	F	3	0	0	0	0
5	A	24	0	36	3	0
5	B	8	0	12	0	0
5	C	8	0	12	0	0
5	D	4	0	6	0	0
5	F	8	0	12	0	0
6	B	4	0	3	0	0
6	F	4	0	3	2	0
7	A	460	0	0	4	0
7	B	382	0	0	2	0
7	C	218	0	0	1	0
7	D	284	0	0	1	0
7	E	328	0	0	3	0
7	F	335	0	0	4	0
All	All	19429	0	84	42	0

Clashscore is defined as the number of clashes calculated for the entry per 1000 atoms (including hydrogens) of the entry. The overall clashscore for this entry is 2.

The worst 5 of 42 close contacts within the same asymmetric unit are listed below.

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:52:ARG:NH1	7:A:2308:HOH:O	2.25	0.69

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
6:F:442:ACT:H3	7:F:2353:HOH:O	1.99	0.62
1:B:241:HIS:CE1	1:C:241:HIS:CE1	2.90	0.59
1:A:49:ASN:N	5:A:435:EDO:HO2	2.00	0.59
1:B:274:GLU:OE2	1:B:383:LYS:NZ	2.36	0.58

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	377/383 (98%)	371 (98%)	6 (2%)	0	100	100
1	B	360/383 (94%)	353 (98%)	7 (2%)	0	100	100
1	C	360/383 (94%)	352 (98%)	8 (2%)	0	100	100
1	D	356/383 (93%)	349 (98%)	7 (2%)	0	100	100
1	E	355/383 (93%)	348 (98%)	7 (2%)	0	100	100
1	F	362/383 (94%)	355 (98%)	7 (2%)	0	100	100
All	All	2170/2298 (94%)	2128 (98%)	42 (2%)	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	311/313 (99%)	309 (99%)	2 (1%)	92	96
1	B	307/313 (98%)	306 (100%)	1 (0%)	96	98

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	C	302/313 (96%)	301 (100%)	1 (0%)	96	98
1	D	301/313 (96%)	300 (100%)	1 (0%)	96	98
1	E	300/313 (96%)	298 (99%)	2 (1%)	91	95
1	F	304/313 (97%)	302 (99%)	2 (1%)	91	95
All	All	1825/1878 (97%)	1816 (100%)	9 (0%)	95	97

5 of 9 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	D	352	GLU
1	F	198	LYS
1	E	299	MSE
1	B	160	LYS
1	E	198	LYS

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

5.3.3 RNA ⓘ

There are no RNA chains 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 ⓘ

Of 45 ligands modelled in this entry, 30 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$
5	EDO	A	428	-	3,3,3	0.78	0	2,2,2	0.18	0
5	EDO	A	431	-	3,3,3	0.96	0	2,2,2	0.85	0
5	EDO	A	434	-	3,3,3	0.56	0	2,2,2	0.53	0
5	EDO	A	435	-	3,3,3	0.44	0	2,2,2	0.09	0
5	EDO	A	436	-	3,3,3	0.65	0	2,2,2	0.36	0
5	EDO	A	438	-	3,3,3	0.76	0	2,2,2	0.08	0
5	EDO	B	433	-	3,3,3	0.65	0	2,2,2	0.61	0
5	EDO	B	439	-	3,3,3	0.68	0	2,2,2	0.30	0
6	ACT	B	441	2	1,3,3	2.08	1 (100%)	0,3,3	0.00	-
5	EDO	C	432	-	3,3,3	0.70	0	2,2,2	0.14	0
5	EDO	C	440	-	3,3,3	0.59	0	2,2,2	0.20	0
5	EDO	D	437	-	3,3,3	0.51	0	2,2,2	0.31	0
5	EDO	F	429	-	3,3,3	0.81	0	2,2,2	0.09	0
5	EDO	F	430	-	3,3,3	0.59	0	2,2,2	0.20	0
6	ACT	F	442	2	1,3,3	1.37	0	0,3,3	0.00	-

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
5	EDO	A	428	-	-	0/1/1/1	0/0/0/0
5	EDO	A	431	-	-	0/1/1/1	0/0/0/0
5	EDO	A	434	-	-	0/1/1/1	0/0/0/0
5	EDO	A	435	-	-	0/1/1/1	0/0/0/0
5	EDO	A	436	-	-	0/1/1/1	0/0/0/0
5	EDO	A	438	-	-	0/1/1/1	0/0/0/0
5	EDO	B	433	-	-	0/1/1/1	0/0/0/0
5	EDO	B	439	-	-	0/1/1/1	0/0/0/0
6	ACT	B	441	2	-	0/0/0/0	0/0/0/0
5	EDO	C	432	-	-	0/1/1/1	0/0/0/0
5	EDO	C	440	-	-	0/1/1/1	0/0/0/0
5	EDO	D	437	-	-	0/1/1/1	0/0/0/0
5	EDO	F	429	-	-	0/1/1/1	0/0/0/0
5	EDO	F	430	-	-	0/1/1/1	0/0/0/0
6	ACT	F	442	2	-	0/0/0/0	0/0/0/0

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	B	441	ACT	CH3-C	2.08	1.51	1.48

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

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	374/383 (97%)	-0.39	10 (2%)	52	56	16, 24, 77, 129	0
1	B	359/383 (93%)	-0.17	21 (5%)	22	25	19, 29, 92, 186	0
1	C	361/383 (94%)	0.16	37 (10%)	7	8	24, 47, 87, 127	0
1	D	353/383 (92%)	-0.19	12 (3%)	43	47	22, 41, 72, 118	0
1	E	356/383 (92%)	-0.08	17 (4%)	29	31	19, 33, 93, 155	0
1	F	359/383 (93%)	-0.15	19 (5%)	25	29	16, 35, 84, 127	0
All	All	2162/2298 (94%)	-0.14	116 (5%)	24	28	16, 34, 84, 186	0

The worst 5 of 116 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	312	LEU	12.5
1	B	310	LYS	11.5
1	E	275	SER	10.9
1	E	300	ALA	9.6
1	C	312	LEU	9.0

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

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	RSR	LLDF	B-factors(Å ²)	Q<0.9
5	EDO	A	434	4/4	0.45	13.81	55,59,61,65	0
4	CL	A	421	1/1	0.33	9.29	70,70,70,70	0
5	EDO	D	437	4/4	0.56	7.83	66,71,76,80	0
5	EDO	A	431	4/4	0.27	7.23	49,52,60,61	0
5	EDO	C	440	4/4	0.17	7.07	53,69,75,83	0
5	EDO	B	433	4/4	0.56	6.01	60,63,64,64	0
5	EDO	F	430	4/4	0.35	5.26	56,60,61,63	0
5	EDO	A	436	4/4	0.22	5.12	47,55,56,62	0
5	EDO	B	439	4/4	0.21	4.96	56,63,63,65	0
5	EDO	C	432	4/4	0.55	4.88	61,62,64,65	0
5	EDO	A	435	4/4	0.19	4.81	42,45,52,60	0
5	EDO	A	428	4/4	0.22	4.39	40,45,49,53	0
6	ACT	B	441	4/4	0.25	4.07	35,49,60,71	0
6	ACT	F	442	4/4	0.18	3.26	46,59,69,72	0
5	EDO	F	429	4/4	0.22	2.80	52,55,57,60	0
3	K	F	413	1/1	0.22	2.26	90,90,90,90	0
5	EDO	A	438	4/4	0.13	1.91	47,50,53,56	0
4	CL	B	417[A]	1/1	0.18	1.69	60,60,60,60	1
4	CL	F	418[B]	1/1	0.12	0.98	68,68,68,68	1
4	CL	E	420[A]	1/1	0.12	0.65	65,65,65,65	1
4	CL	B	423	1/1	0.08	0.18	67,67,67,67	0
4	CL	F	425	1/1	0.08	0.00	56,56,56,56	0
4	CL	B	427	1/1	0.10	-0.11	60,60,60,60	0
4	CL	B	417[B]	1/1	0.18	-0.14	70,70,70,70	1
3	K	D	411	1/1	0.13	-0.30	70,70,70,70	0
4	CL	F	418[A]	1/1	0.12	-0.68	65,65,65,65	1
3	K	A	408	1/1	0.09	-0.74	31,31,31,31	0
4	CL	E	420[B]	1/1	0.12	-0.79	68,68,68,68	1
4	CL	B	422	1/1	0.15	-0.79	72,72,72,72	0
4	CL	E	419	1/1	0.16	-1.10	86,86,86,86	0
4	CL	D	426	1/1	0.07	-1.27	58,58,58,58	0
3	K	B	410	1/1	0.05	-1.48	29,29,29,29	0
3	K	C	412	1/1	0.08	-1.54	84,84,84,84	0
4	CL	E	424	1/1	0.06	-1.56	68,68,68,68	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors(\AA^2)	Q<0.9
2	ZN	D	406	1/1	0.04	-1.73	37,37,37,37	0
2	ZN	A	406	1/1	0.05	-1.91	28,28,28,28	0
2	ZN	C	406	1/1	0.05	-2.05	45,45,45,45	0
2	ZN	B	406	1/1	0.05	-2.20	33,33,33,33	0
2	ZN	E	406	1/1	0.03	-2.41	39,39,39,39	0
3	K	E	415	1/1	0.03	-2.48	39,39,39,39	0
3	K	F	416	1/1	0.04	-2.50	40,40,40,40	0
2	ZN	F	406	1/1	0.02	-3.19	37,37,37,37	0
3	K	A	407	1/1	0.02	-3.21	39,39,39,39	0
3	K	C	414	1/1	0.05	-3.31	52,52,52,52	0
3	K	D	409	1/1	0.04	-4.17	42,42,42,42	0

6.5 Other polymers ⓘ

There are no such residues in this entry.