



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 13, 2018 – 07:04 pm GMT

PDB ID : 3R3Y
Title : Crystal Structure of the Fluoroacetate Dehalogenase RPA1163 - His280Asn/
Fluoroacetate
Authors : Chan, P.W.Y.; Yakunin, A.F.; Edwards, E.A.; Pai, E.F.
Deposited on : 2011-03-16
Resolution : 1.15 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 following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.7.3 (157068), CSD as539be (2018)
Xtriage (Phenix) : 1.13
EDS : trunk31020
Percentile statistics : 20171227.v01 (using entries in the PDB archive December 27th 2017)
Refmac : 5.8.0158
CCP4 : 7.0 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk31020

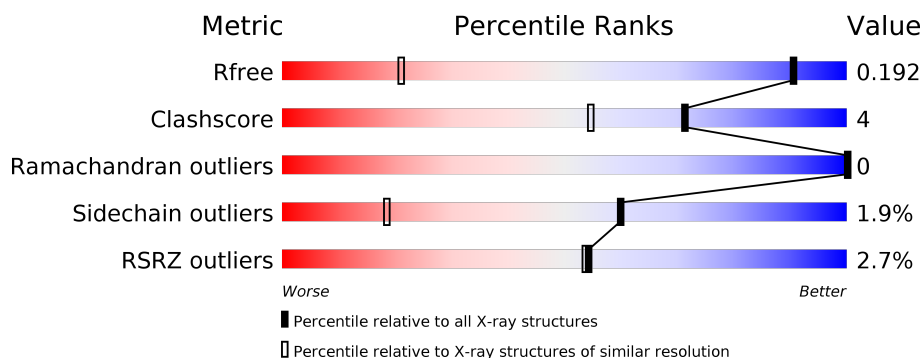
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.15 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}	111664	1223 (1.18-1.10)
Clashscore	122126	1264 (1.18-1.10)
Ramachandran outliers	120053	1215 (1.18-1.10)
Sidechain outliers	120020	1212 (1.18-1.10)
RSRZ outliers	108989	1199 (1.18-1.10)

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	306	<div> <div>3%</div> <div> <div></div> <div>86%</div> <div>10%</div> <div>• •</div> </div> </div>
1	B	306	<div> <div>2%</div> <div> <div></div> <div>86%</div> <div>8%</div> <div>• 5%</div> </div> </div>

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 5272 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 Fluoroacetate dehalogenase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	297	Total	C	N	O	S	0	10	0
			2437	1565	424	437	11			
1	B	290	Total	C	N	O	S	0	7	0
			2369	1525	412	421	11			

There are 10 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-1	GLY	-	EXPRESSION TAG	UNP Q6NAM1
A	0	HIS	-	EXPRESSION TAG	UNP Q6NAM1
A	280	ASN	HIS	ENGINEERED MUTATION	UNP Q6NAM1
A	303	GLY	-	EXPRESSION TAG	UNP Q6NAM1
A	304	SER	-	EXPRESSION TAG	UNP Q6NAM1
B	-1	GLY	-	EXPRESSION TAG	UNP Q6NAM1
B	0	HIS	-	EXPRESSION TAG	UNP Q6NAM1
B	280	ASN	HIS	ENGINEERED MUTATION	UNP Q6NAM1
B	303	GLY	-	EXPRESSION TAG	UNP Q6NAM1
B	304	SER	-	EXPRESSION TAG	UNP Q6NAM1

- Molecule 2 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	1	Total	Ca	0	0
			1	1		

- Molecule 3 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	B	1	Total	Cl	0	0
			1	1		
3	A	1	Total	Cl	0	0
			1	1		

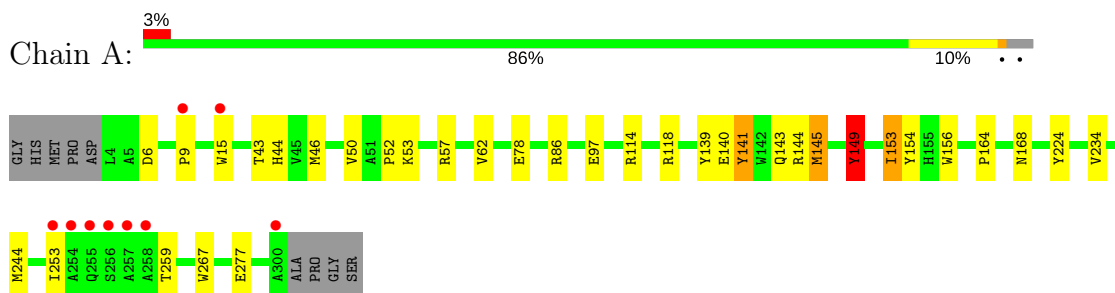
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	263	Total 263	O 263	0	0
4	B	200	Total 200	O 200	0	0

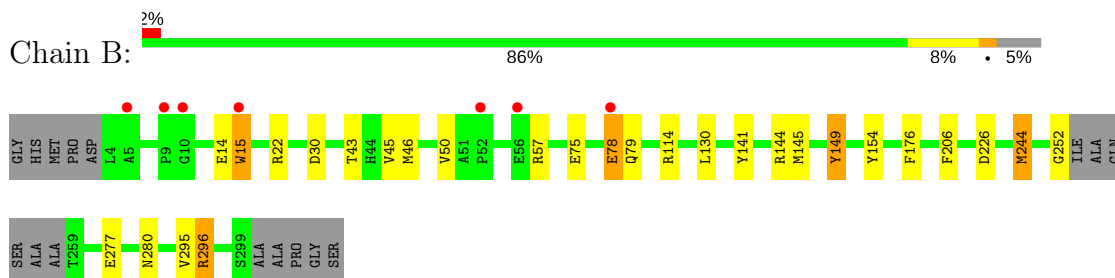
3 Residue-property plots [i](#)

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



• Molecule 1: Fluoroacetate dehalogenase



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	41.76Å 79.33Å 85.01Å 90.00° 103.20° 90.00°	Depositor
Resolution (Å)	41.38 – 1.15 41.38 – 1.15	Depositor EDS
% Data completeness (in resolution range)	90.6 (41.38-1.15) 90.6 (41.38-1.15)	Depositor EDS
R_{merge}	0.05	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.51 (at 1.15Å)	Xtriage
Refinement program	REFMAC 5.5.0102	Depositor
R, R_{free}	0.151 , 0.187 0.160 , 0.192	Depositor DCC
R_{free} test set	8724 reflections (5.05%)	wwPDB-VP
Wilson B-factor (Å ²)	9.3	Xtriage
Anisotropy	0.439	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.46 , 49.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.46$, $\langle L^2 \rangle = 0.29$	Xtriage
Estimated twinning fraction	0.038 for h,-k,-h-l	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	5272	wwPDB-VP
Average B, all atoms (Å ²)	13.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.82% 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

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: ASB, CA, 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	1.32	10/2501 (0.4%)	1.23	11/3401 (0.3%)
1	B	1.23	9/2432 (0.4%)	1.12	9/3304 (0.3%)
All	All	1.27	19/4933 (0.4%)	1.18	20/6705 (0.3%)

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	2
1	B	0	2
All	All	0	4

All (19) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	141[A]	TYR	CZ-OH	-9.12	1.22	1.37
1	A	141[B]	TYR	CZ-OH	-9.12	1.22	1.37
1	A	149[A]	TYR	CD1-CE1	-7.64	1.27	1.39
1	A	149[B]	TYR	CD1-CE1	-7.64	1.27	1.39
1	B	15	TRP	CB-CG	7.54	1.63	1.50
1	A	50	VAL	CB-CG2	-7.22	1.37	1.52
1	A	97	GLU	CB-CG	-6.92	1.39	1.52
1	B	50	VAL	CB-CG2	-6.03	1.40	1.52
1	A	141[A]	TYR	CE1-CZ	-5.99	1.30	1.38
1	A	141[B]	TYR	CE1-CZ	-5.99	1.30	1.38
1	B	75	GLU	CB-CG	5.93	1.63	1.52
1	B	141	TYR	CE2-CZ	-5.89	1.30	1.38
1	A	145[A]	MET	N-CA	5.83	1.58	1.46
1	A	145[B]	MET	N-CA	5.83	1.58	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	78	GLU	CB-CG	5.83	1.63	1.52
1	B	45	VAL	CB-CG2	-5.67	1.41	1.52
1	B	277	GLU	CG-CD	5.52	1.60	1.51
1	B	206	PHE	CD2-CE2	-5.30	1.28	1.39
1	B	78	GLU	CG-CD	5.02	1.59	1.51

All (20) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	86	ARG	NE-CZ-NH1	-9.72	115.44	120.30
1	A	244	MET	CG-SD-CE	-8.76	86.18	100.20
1	B	244	MET	CG-SD-CE	-8.29	86.94	100.20
1	B	296	ARG	NE-CZ-NH1	6.29	123.45	120.30
1	B	226	ASP	CB-CG-OD2	-6.14	112.78	118.30
1	A	6	ASP	CB-CG-OD1	6.08	123.78	118.30
1	A	224	TYR	CB-CG-CD1	-6.07	117.36	121.00
1	B	296	ARG	NE-CZ-NH2	-5.90	117.35	120.30
1	B	244	MET	CA-CB-CG	5.70	122.99	113.30
1	A	118	ARG	NE-CZ-NH2	-5.53	117.53	120.30
1	B	206	PHE	CB-CG-CD2	5.50	124.65	120.80
1	A	6	ASP	CB-CG-OD2	-5.43	113.41	118.30
1	A	57	ARG	NE-CZ-NH1	-5.23	117.69	120.30
1	B	22	ARG	NE-CZ-NH1	-5.20	117.70	120.30
1	A	153	ILE	CG1-CB-CG2	5.11	122.64	111.40
1	B	14	GLU	CB-CA-C	-5.10	100.21	110.40
1	A	149[A]	TYR	CB-CG-CD1	-5.09	117.94	121.00
1	A	149[B]	TYR	CB-CG-CD1	-5.09	117.94	121.00
1	B	141	TYR	CD1-CE1-CZ	-5.05	115.25	119.80
1	A	118	ARG	NE-CZ-NH1	5.02	122.81	120.30

There are no chirality outliers.

All (4) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	114	ARG	Sidechain
1	A	154	TYR	Sidechain
1	B	114	ARG	Sidechain
1	B	154	TYR	Sidechain

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	2437	0	2342	20	0
1	B	2369	0	2280	17	0
2	A	1	0	0	0	0
3	A	1	0	0	0	0
3	B	1	0	0	0	0
4	A	263	0	0	9	1
4	B	200	0	0	7	1
All	All	5272	0	4622	36	1

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 4.

All (36) 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:B:176[A]:PHE:CE2	4:B:439:HOH:O	2.00	1.11
1:A:144[B]:ARG:O	1:A:149[B]:TYR:CD2	2.06	1.09
1:A:144[B]:ARG:O	1:A:149[B]:TYR:HD2	1.43	1.02
4:A:397:HOH:O	1:B:176[A]:PHE:CE2	2.16	0.97
4:A:397:HOH:O	1:B:176[A]:PHE:HE2	1.51	0.92
1:B:149[B]:TYR:CE2	4:B:311:HOH:O	2.22	0.91
1:A:145[A]:MET:O	1:B:145[A]:MET:O	1.90	0.90
1:B:176[A]:PHE:HZ	4:B:440:HOH:O	1.60	0.85
1:B:149[B]:TYR:HE2	4:B:311:HOH:O	1.57	0.82
1:B:176[A]:PHE:CZ	4:B:440:HOH:O	2.37	0.76
1:A:9:PRO:HG3	4:A:543:HOH:O	1.94	0.67
1:A:168[B]:ASN:OD1	4:A:501:HOH:O	2.13	0.66
1:A:9:PRO:HD3	4:A:543:HOH:O	1.95	0.65
1:B:78:GLU:H	1:B:78:GLU:CD	2.00	0.65
1:A:153:ILE:HG21	1:A:253:ILE:HD13	1.80	0.64
1:A:277[B]:GLU:OE1	4:A:538:HOH:O	2.14	0.64
1:A:141[B]:TYR:CD1	1:A:156:TRP:CE3	2.87	0.62
1:B:149[B]:TYR:CD2	4:B:311:HOH:O	2.51	0.61
1:B:144[B]:ARG:O	1:B:149[B]:TYR:CD2	2.59	0.56
1:A:78:GLU:N	1:A:78:GLU:CD	2.62	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:139:TYR:CE2	1:A:143:GLN:HG3	2.45	0.51
1:A:78:GLU:H	1:A:78:GLU:CD	2.16	0.49
1:A:234[B]:VAL:CG2	1:A:267:TRP:CZ2	2.96	0.49
4:A:397:HOH:O	1:B:176[A]:PHE:CD2	2.56	0.47
1:A:44:HIS:HB2	1:A:62:VAL:HG12	1.97	0.47
1:A:43:THR:O	1:A:46[B]:MET:HG3	2.15	0.47
1:B:130:LEU:O	1:B:244:MET:HA	2.14	0.47
1:B:57:ARG:HD3	1:B:295:VAL:HG13	1.97	0.47
1:A:9:PRO:CG	4:A:543:HOH:O	2.59	0.46
1:A:234[B]:VAL:HG22	1:A:267:TRP:CZ2	2.52	0.45
1:A:234[B]:VAL:HG23	1:A:267:TRP:CH2	2.54	0.43
1:B:30:ASP:OD1	4:B:508:HOH:O	2.20	0.42
1:A:140:GLU:OE1	1:A:144[A]:ARG:NH2	2.50	0.42
1:B:43:THR:O	1:B:46[B]:MET:HG3	2.20	0.41
1:B:252:GLY:HA3	1:B:280:ASN:OD1	2.21	0.41
1:A:52:PRO:CG	4:A:555:HOH:O	2.70	0.40

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:478:HOH:O	4:B:467:HOH:O[2_656]	2.18	0.02

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	304/306 (99%)	294 (97%)	10 (3%)	0	100	100
1	B	292/306 (95%)	284 (97%)	8 (3%)	0	100	100
All	All	596/612 (97%)	578 (97%)	18 (3%)	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	245/241 (102%)	239 (98%)	6 (2%)	52	12
1	B	239/241 (99%)	234 (98%)	5 (2%)	56	15
All	All	484/482 (100%)	473 (98%)	11 (2%)	60	13

All (11) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	15	TRP
1	A	53	LYS
1	A	149[A]	TYR
1	A	149[B]	TYR
1	A	164	PRO
1	A	259	THR
1	B	15	TRP
1	B	79	GLN
1	B	149[A]	TYR
1	B	149[B]	TYR
1	B	296	ARG

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	238	ASN
1	A	272	GLN
1	B	238	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

2 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	$\# Z > 2$
1	ASB	A	110	1	8,11,12	1.89	1 (12%)	8,13,15	1.96	4 (50%)
1	ASB	B	110	1	8,11,12	1.60	2 (25%)	8,13,15	1.85	3 (37%)

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
1	ASB	A	110	1	-	0/7/11/13	0/0/0/0
1	ASB	B	110	1	-	0/7/11/13	0/0/0/0

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	110	ASB	OD1-C2	-2.35	1.40	1.45
1	B	110	ASB	CA-C	3.42	1.54	1.50
1	A	110	ASB	CA-C	4.65	1.56	1.50

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	110	ASB	O-C-CA	-2.69	117.58	124.96
1	B	110	ASB	O-C-CA	-2.56	117.93	124.96
1	A	110	ASB	OD1-CG-OD2	-2.35	117.86	123.58
1	B	110	ASB	OD1-CG-CB	2.33	115.19	111.18
1	A	110	ASB	OD1-CG-CB	2.41	115.34	111.18
1	A	110	ASB	CB-CA-C	3.08	117.35	111.41
1	B	110	ASB	CB-CA-C	3.45	118.06	111.41

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 [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 3 ligands modelled in this entry, 3 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

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	296/306 (96%)	0.13	9 (3%) 50 49	6, 11, 23, 32	0
1	B	289/306 (94%)	0.10	7 (2%) 59 57	6, 13, 25, 31	0
All	All	585/612 (95%)	0.12	16 (2%) 54 54	6, 12, 23, 32	0

All (16) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	5	ALA	4.4
1	A	257	ALA	3.7
1	A	255	GLN	3.7
1	B	10	GLY	3.7
1	B	9	PRO	3.6
1	A	258	ALA	3.3
1	A	254	ALA	3.3
1	A	300	ALA	3.1
1	A	253	ILE	3.0
1	B	52	PRO	2.8
1	A	256	SER	2.4
1	B	56	GLU	2.3
1	A	15	TRP	2.2
1	A	9	PRO	2.2
1	B	78	GLU	2.2
1	B	15	TRP	2.1

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(\AA^2)	Q<0.9
1	ASB	A	110	12/13	0.99	0.06	5,6,7,7	0
1	ASB	B	110	12/13	0.99	0.07	6,6,8,8	0

6.3 Carbohydrates [i](#)

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. 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(\AA^2)	Q<0.9
2	CA	A	305	1/1	0.99	0.08	17,17,17,17	1
3	CL	B	305	1/1	0.99	0.12	34,34,34,34	0
3	CL	A	306	1/1	1.00	0.05	15,15,15,15	0

6.5 Other polymers [i](#)

There are no such residues in this entry.