



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 6, 2026 – 09:33 PM UTC

PDB ID : 1ZM2 / pdb_00001zm2
Title : Structure of ADP-ribosylated eEF2 in complex with catalytic fragment of ETA
Authors : Joergensen, R.; Merrill, A.R.; Yates, S.P.; Marquez, V.E.; Schwan, A.L.; Boesen, T.; Andersen, G.R.
Deposited on : 2005-05-10
Resolution : 3.07 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
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
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

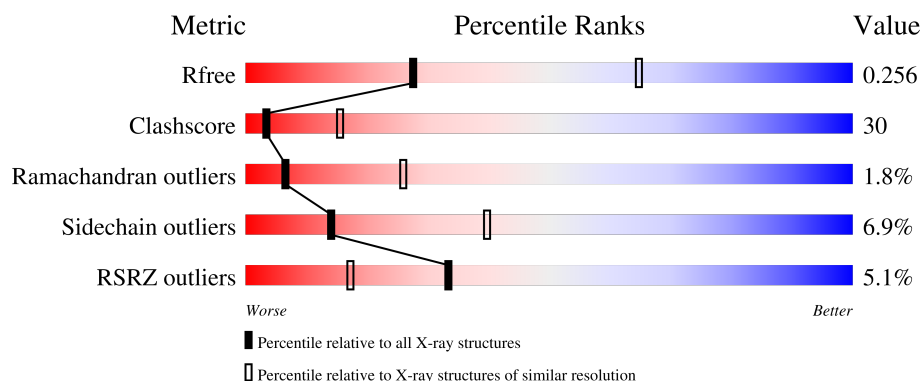
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.07 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	2010 (3.10-3.06)
Clashscore	190562	2102 (3.10-3.06)
Ramachandran outliers	187476	1982 (3.10-3.06)
Sidechain outliers	187428	1981 (3.10-3.06)
RSRZ outliers	180081	2010 (3.10-3.06)

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	842	50% 43% • •
1	C	842	2% 44% 47% 7% •
1	E	842	16% 44% 49% 5% •
2	B	207	56% 37% 6% •
2	D	207	% 57% 35% 8%

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Mol	Chain	Length	Quality of chain
2	F	207	 A horizontal bar chart showing the quality of chain 2. The bar is divided into three segments: green (46%), yellow (43%), and orange (10%).

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
1	DDE	E	699	-	-	X	-
3	APR	E	843	X	-	-	-

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 24024 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 Elongation factor 2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	823	Total	C	N	O	S	0	0	0
			6405	4075	1093	1207	30			
1	C	823	Total	C	N	O	S	0	0	0
			6405	4075	1093	1207	30			
1	E	823	Total	C	N	O	S	0	0	0
			6415	4082	1095	1208	30			

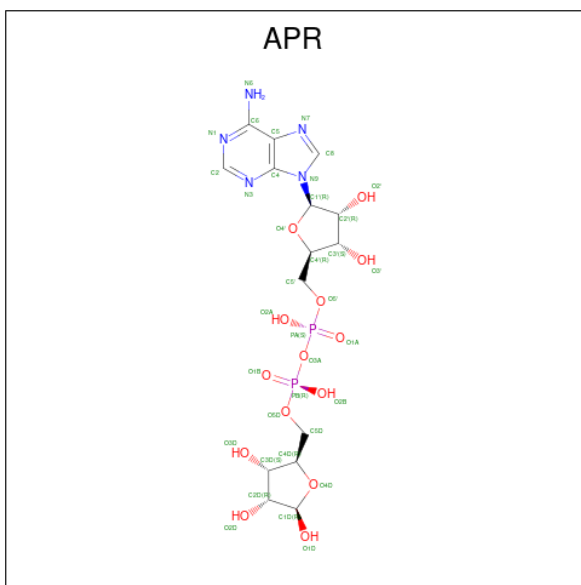
There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	699	DDE	HIS	modified residue	UNP P32324
C	699	DDE	HIS	modified residue	UNP P32324
E	699	DDE	HIS	modified residue	UNP P32324

- Molecule 2 is a protein called Exotoxin A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
2	B	207	Total	C	N	O	0	0	0
			1588	1001	283	304			
2	D	207	Total	C	N	O	0	0	0
			1588	1001	283	304			
2	F	207	Total	C	N	O	0	0	0
			1588	1001	283	304			

- Molecule 3 is ADENOSINE-5-DIPHOSPHORIBOSE (CCD ID: APR) (formula: C₁₅H₂₃N₅O₁₄P₂).

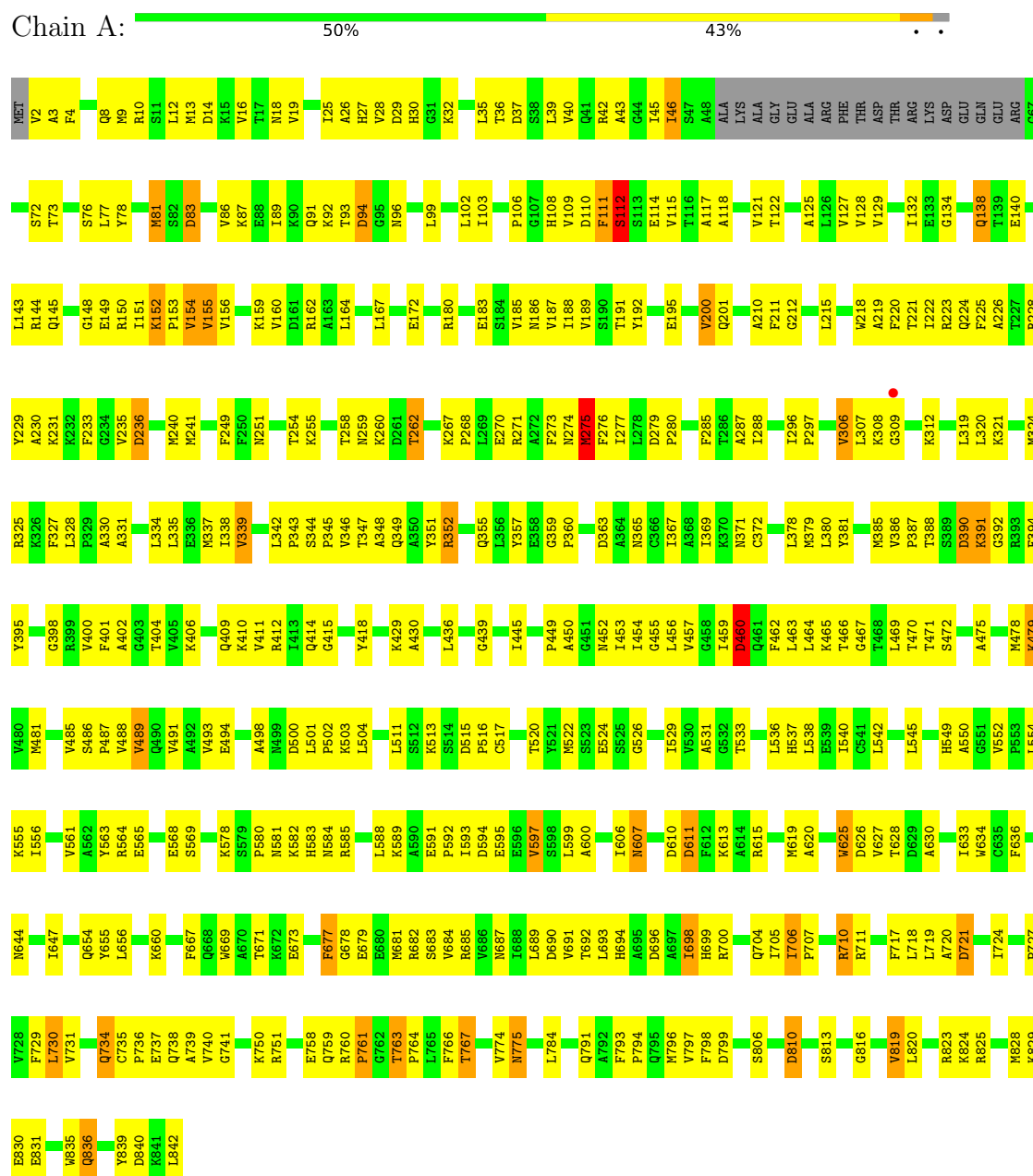


Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	E	1	Total	C	N	O	P	0	0
			35	15	5	13	2		

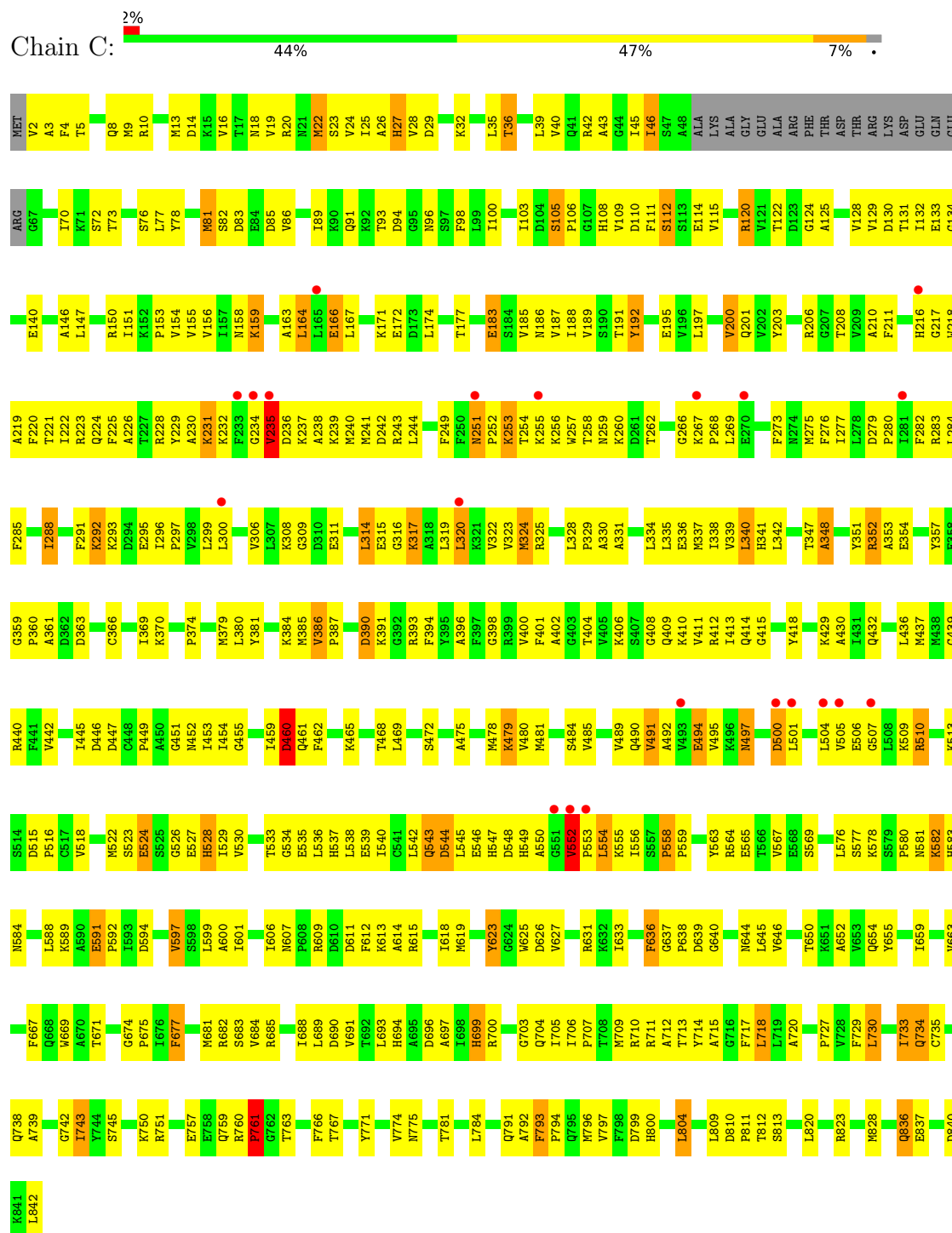
3 Residue-property plots

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.

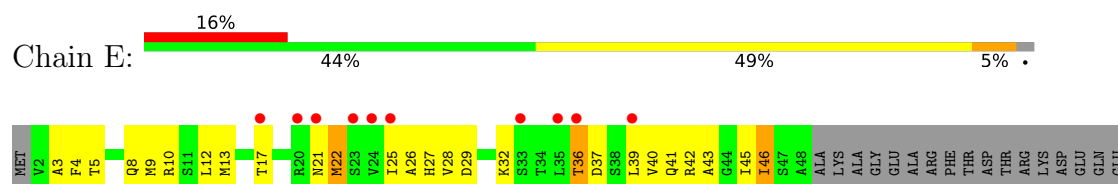
• Molecule 1: Elongation factor 2

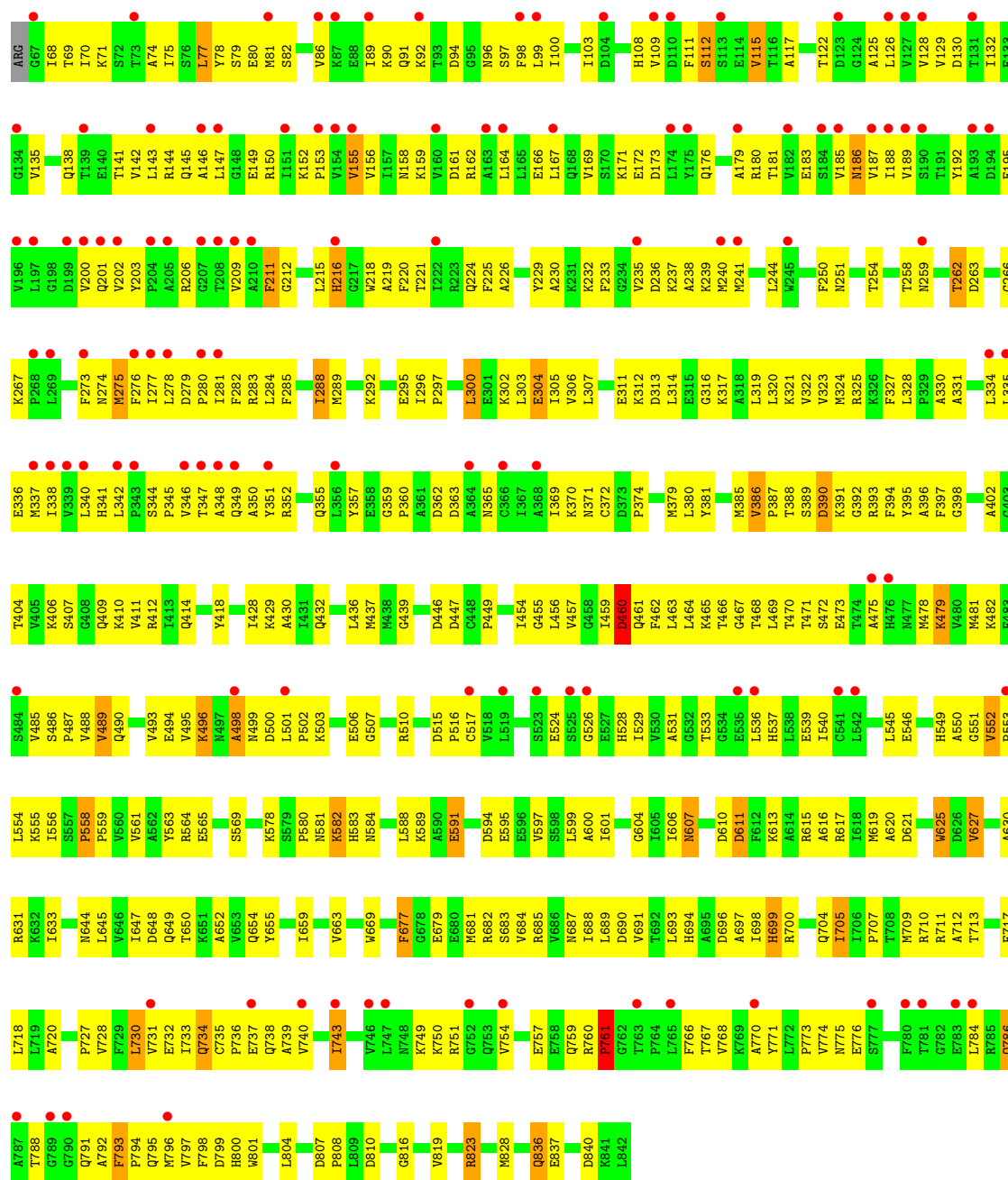


• Molecule 1: Elongation factor 2



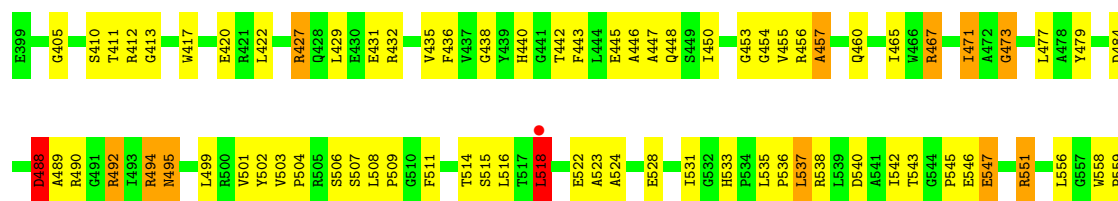
• Molecule 1: Elongation factor 2





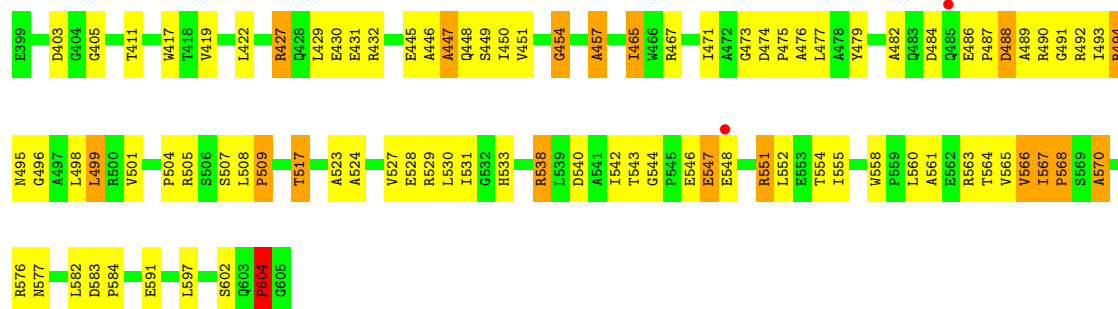
• Molecule 2: Exotoxin A

Chain B: 56% 37% 6%





• Molecule 2: Exotoxin A



• Molecule 2: Exotoxin A



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	330.63Å 67.84Å 191.50Å 90.00° 103.30° 90.00°	Depositor
Resolution (Å)	30.00 – 3.07 30.00 – 3.07	Depositor EDS
% Data completeness (in resolution range)	(Not available) (30.00-3.07) 99.2 (30.00-3.07)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.14	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.65 (at 3.06Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.231 , 0.265 0.229 , 0.256	Depositor DCC
R_{free} test set	1552 reflections (1.99%)	wwPDB-VP
Wilson B-factor (Å ²)	52.7	Xtriage
Anisotropy	0.304	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.28 , 47.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.45$, $\langle L^2 \rangle = 0.27$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.90	EDS
Total number of atoms	24024	wwPDB-VP
Average B, all atoms (Å ²)	61.0	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 39.80 % 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 3.0079e-04. 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: APR, DDE

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	0.58	1/6517 (0.0%)	1.04	28/8823 (0.3%)
1	C	0.54	0/6517	1.03	37/8823 (0.4%)
1	E	0.52	2/6517 (0.0%)	1.01	26/8823 (0.3%)
2	B	0.75	0/1627	1.21	15/2216 (0.7%)
2	D	0.73	0/1627	1.19	11/2216 (0.5%)
2	F	0.73	0/1627	1.24	15/2216 (0.7%)
All	All	0.59	3/24432 (0.0%)	1.07	132/33117 (0.4%)

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	558	PRO	C-O	-8.47	1.17	1.24
1	A	706	ILE	CA-CB	-6.21	1.51	1.54
1	E	697	ALA	CA-CB	-5.00	1.45	1.53

The worst 5 of 132 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	115	VAL	N-CA-C	-9.08	101.89	110.42
2	F	520	ALA	CA-C-N	9.06	131.16	119.84
2	F	520	ALA	C-N-CA	9.06	131.16	119.84
1	E	558	PRO	CA-C-N	8.47	130.43	119.84
1	E	558	PRO	C-N-CA	8.47	130.43	119.84

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	6405	0	6472	372	0
1	C	6405	0	6472	406	0
1	E	6415	0	6487	448	0
2	B	1588	0	1539	72	0
2	D	1588	0	1539	77	0
2	F	1588	0	1539	91	0
3	E	35	0	19	6	0
All	All	24024	0	24067	1449	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 30.

The worst 5 of 1449 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:D:546:GLU:HG3	2:D:547:GLU:HG3	1.29	1.14
2:B:546:GLU:HG3	2:B:547:GLU:HG3	1.32	1.11
1:C:404:THR:HG22	1:C:449:PRO:HA	1.34	1.05
1:E:68:ILE:HD12	1:E:390:ASP:HB2	1.37	1.03
1:C:231:LYS:HE3	1:C:232:LYS:HG3	1.42	1.02

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	818/842 (97%)	732 (90%)	74 (9%)	12 (2%)	8	30
1	C	818/842 (97%)	711 (87%)	87 (11%)	20 (2%)	4	20
1	E	818/842 (97%)	707 (86%)	97 (12%)	14 (2%)	7	27
2	B	205/207 (99%)	179 (87%)	24 (12%)	2 (1%)	12	39
2	D	205/207 (99%)	176 (86%)	24 (12%)	5 (2%)	4	20
2	F	205/207 (99%)	175 (85%)	27 (13%)	3 (2%)	8	30
All	All	3069/3147 (98%)	2680 (87%)	333 (11%)	56 (2%)	6	26

5 of 56 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	112	SER
1	C	235	VAL
1	C	460	ASP
1	C	639	ASP
1	C	761	PRO

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	699/714 (98%)	663 (95%)	36 (5%)	21	49
1	C	699/714 (98%)	640 (92%)	59 (8%)	10	33
1	E	699/714 (98%)	666 (95%)	33 (5%)	23	52
2	B	161/162 (99%)	145 (90%)	16 (10%)	7	27
2	D	161/162 (99%)	143 (89%)	18 (11%)	6	22
2	F	161/162 (99%)	144 (89%)	17 (11%)	6	24
All	All	2580/2628 (98%)	2401 (93%)	179 (7%)	14	40

5 of 179 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	D	465	ILE

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Mol	Chain	Res	Type
1	E	460	ASP
2	D	499	LEU
1	E	46	ILE
1	E	677	PHE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 85 such sidechains are listed below:

Mol	Chain	Res	Type
2	D	448	GLN
1	E	549	HIS
2	D	577	ASN
1	E	201	GLN
1	E	687	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

3 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	DDE	E	699	1,3	18,20,21	1.96	5 (27%)	17,28,30	3.04	6 (35%)
1	DDE	A	699	1	9,10,21	0.61	0	8,12,30	1.05	0
1	DDE	C	699	1	9,10,21	0.98	1 (11%)	8,12,30	1.07	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
1	DDE	E	699	1,3	-	2/20/21/23	0/1/1/1
1	DDE	A	699	1	-	1/5/6/23	0/1/1/1
1	DDE	C	699	1	-	1/5/6/23	0/1/1/1

The worst 5 of 6 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	699	DDE	OAG-CBI	5.22	1.33	1.23
1	E	699	DDE	CAT-CE1	3.32	1.55	1.49
1	E	699	DDE	CG-ND1	-2.81	1.33	1.38
1	E	699	DDE	CAC-NCB	2.49	1.59	1.50
1	C	699	DDE	CB-CA	2.24	1.58	1.53

The worst 5 of 6 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	E	699	DDE	CAU-CAT-CE1	9.74	150.71	114.38
1	E	699	DDE	OAG-CBI-NAD	4.64	131.24	123.04
1	E	699	DDE	CD2-NE2-CE1	-3.27	104.81	107.55
1	E	699	DDE	CB-CG-CD2	2.50	134.44	129.33
1	E	699	DDE	CA-CB-CG	-2.44	107.75	113.77

There are no chirality outliers.

All (4) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	699	DDE	O-C-CA-CB
1	C	699	DDE	O-C-CA-CB
1	E	699	DDE	OAG-CBI-CBW-NCB
1	E	699	DDE	CE1-CAT-CAU-CBW

There are no ring outliers.

3 monomers are involved in 13 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	E	699	DDE	11	0
1	A	699	DDE	1	0
1	C	699	DDE	1	0

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

1 ligand is 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	APR	E	843	1	38,38,39	2.60	12 (31%)	53,58,60	1.48	7 (13%)

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 Torsions and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	APR	E	843	1	1/1/9/10	4/22/51/54	0/4/4/4

The worst 5 of 12 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	E	843	APR	PB-O3A	11.97	1.72	1.59
3	E	843	APR	C2-N1	4.35	1.41	1.33
3	E	843	APR	PA-O3A	3.44	1.63	1.59
3	E	843	APR	C3'-C4'	2.94	1.60	1.53
3	E	843	APR	C5-C4	2.85	1.44	1.39

The worst 5 of 7 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	E	843	APR	O2D-C2D-C3D	-4.84	101.89	111.43
3	E	843	APR	C1D-C2D-C3D	3.59	107.37	101.63
3	E	843	APR	C1D-O4D-C4D	3.46	115.71	108.06
3	E	843	APR	O4D-C1D-C2D	-2.95	100.68	105.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	E	843	APR	O2A-PA-O3A	2.74	114.67	107.27

All (1) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
3	E	843	APR	C1D

All (4) torsion outliers are listed below:

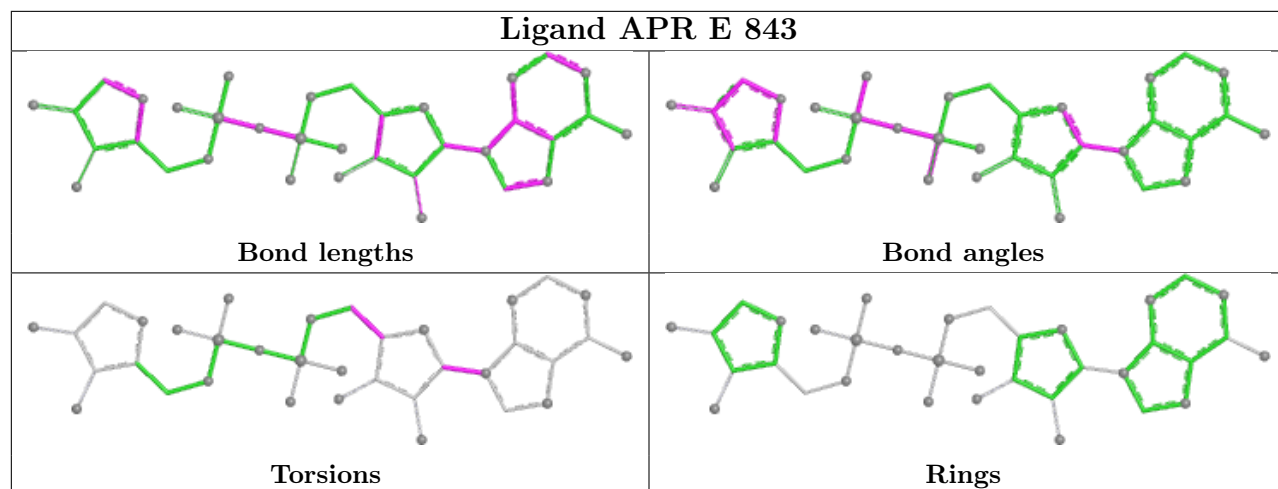
Mol	Chain	Res	Type	Atoms
3	E	843	APR	O4'-C1'-N9-C4
3	E	843	APR	O4'-C1'-N9-C8
3	E	843	APR	O4'-C4'-C5'-O5'
3	E	843	APR	C3'-C4'-C5'-O5'

There are no ring outliers.

1 monomer is involved in 6 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	E	843	APR	6	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.



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	822/842 (97%)	-0.10	1 (0%) 92 86	5, 48, 81, 101	0
1	C	822/842 (97%)	0.29	21 (2%) 57 34	11, 64, 123, 135	0
1	E	822/842 (97%)	1.00	132 (16%) 4 2	7, 106, 129, 147	0
2	B	207/207 (100%)	-0.57	1 (0%) 87 72	5, 22, 55, 71	0
2	D	207/207 (100%)	-0.44	2 (0%) 79 59	5, 25, 64, 78	0
2	F	207/207 (100%)	-0.42	1 (0%) 87 72	7, 27, 64, 79	0
All	All	3087/3147 (98%)	0.22	158 (5%) 33 17	5, 54, 123, 147	0

The worst 5 of 158 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	E	126	LEU	6.4
1	E	338	ILE	5.4
1	E	146	ALA	5.3
1	E	154	VAL	5.3
1	E	273	PHE	5.1

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(Å ²)	Q<0.9
1	DDE	C	699	10/21	0.69	0.15	44,52,55,56	0
1	DDE	A	699	10/21	0.81	0.12	37,41,46,47	0
1	DDE	E	699	20/21	0.84	0.17	48,68,80,81	0

6.3 Carbohydrates [i](#)

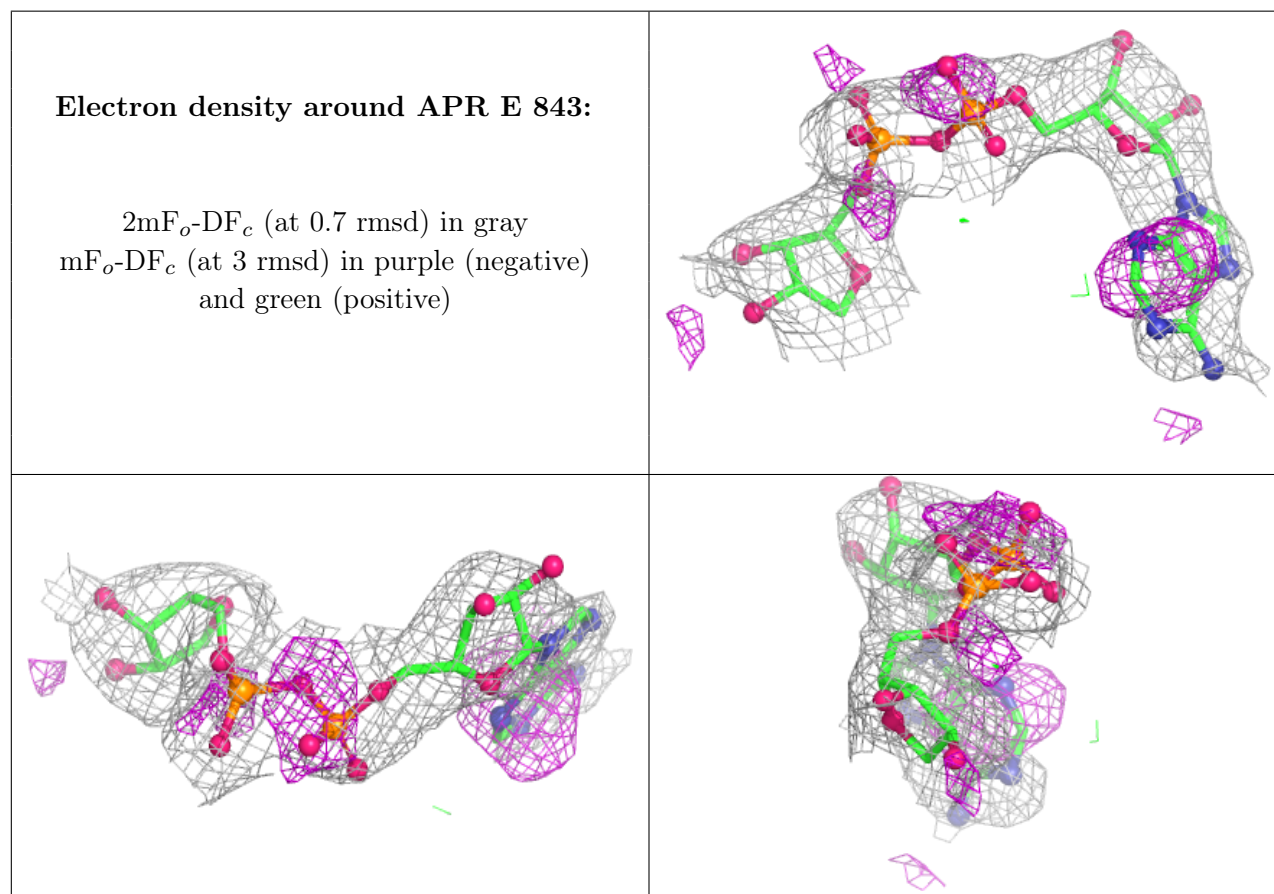
There are no oligosaccharides in this entry.

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	APR	E	843	35/36	0.76	0.15	64,71,85,86	0

The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.



6.5 Other polymers [i](#)

There are no such residues in this entry.