

wwPDB X-ray Structure Validation Summary Report (i)

May 24, 2020 – 10:26 pm BST

PDB ID : 4CC3

Title : Complex of human Tuba C-terminal SH3 domain and Mena proline-rich pep-

tide - H3

Authors: Polle, L.; Rigano, L.; Julian, R.; Ireton, K.; Schubert, W.-D.

Deposited on : 2013-10-17

Resolution : 1.97 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 (i) symbol.

The following versions of software and data (see references (1)) were used in the production of this report:

Mol Probity : 4.02b-467

Mogul : 1.8.5 (274361), CSD as 541 be (2020)

Xtriage (Phenix) : 1.13

EDS : 2.11

buster-report : 1.1.7 (2018)

Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)

Refmac: 5.8.0158

CCP4 : 7.0.044 (Gargrove)

Ideal geometry (proteins) : Engh & Huber (2001) Ideal geometry (DNA, RNA) : Parkinson et al. (1996)

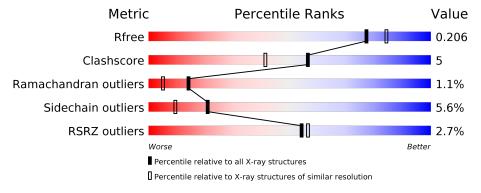
Validation Pipeline (wwPDB-VP) : 2.11

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure: X- $RAY\ DIFFRACTION$

The reported resolution of this entry is 1.97 Å.

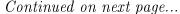
Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive	Similar resolution
Wietlic	$(\# {\rm Entries})$	$(\# ext{Entries}, ext{resolution range}(ext{Å}))$
R_{free}	130704	11647 (2.00-1.96)
Clashscore	141614	1014 (1.98-1.98)
Ramachandran outliers	138981	1006 (1.98-1.98)
Sidechain outliers	138945	1006 (1.98-1.98)
RSRZ outliers	127900	11410 (2.00-1.96)

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 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 <=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	67	% 	10% • 9%
1	С	67	% 87%	7% • •
1	Е	67	81%	7% • 10%
1	G	67	81%	10% • 7%
2	В	12	75%	25%
2	D	12	92%	8%





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Mol	Chain	Length	Quality of chain				
2	F	12	25%	50%		42%	8%
2	Н	12	8%		83%		17%

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
4	PE4	С	2577	_	X	-	-



2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 2573 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 DYNAMIN-BINDING PROTEIN.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf	Trace		
1	A	61	Total	С	N	О	0	4	0
1	А	01	523	339	88	96	0	4	
1	С	64	Total	С	N	О	0	2	0
1	O	04	526	338	90	98			
1	E	60	Total	С	N	О	0	2	0
1	ינו	00	507	329	85	93	0		
1	G	62	Total	С	N	О	0	3	1
I G	02	527	342	89	96	U	J	1	

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1511	GLY	-	expression tag	UNP Q6XZF7
A	1512	PRO	_	expression tag	UNP Q6XZF7
С	1511	GLY	-	expression tag	UNP Q6XZF7
С	1512	PRO	_	expression tag	UNP Q6XZF7
Е	1511	GLY	-	expression tag	UNP Q6XZF7
E	1512	PRO	-	expression tag	UNP Q6XZF7
G	1511	GLY	_	expression tag	UNP Q6XZF7
G	1512	PRO	-	expression tag	UNP Q6XZF7

• Molecule 2 is a protein called PROTEIN ENABLED HOMOLOG.

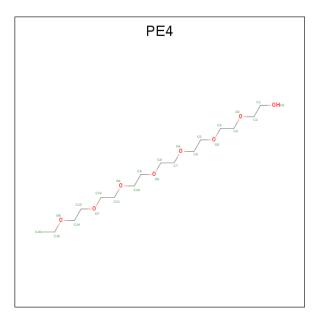
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf	Trace
2	В	12	Total C N O	0	0	0
	D	12	83 56 12 15	0	U	
2	D	12	Total C N O	0	0	0
	D	12	83 56 12 15			U
2	F	12	Total C N O	0	0	0
	Г	12	83 56 12 15	U		
2	Н	19	Total C N O	0	0	0
	11	12	83 56 12 15	U	U	U



•	Molecule 3 is	CHLORIDE ION	three-letter code:	CL	(formula:	CL
•	morecure o is	OHDOIGDE TON (omico icolor codo.	$\cup L$	(IOIIIIuia.	\bigcirc \square \square \square

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

• Molecule 4 is 2-{2-[2-(2-{2-[2-(2-ETHOXY-ETHOXY)-ETHOXY]-ETHOXY}-ETHOXY}-ETHOXY}-ETHOXY}-ETHOXY}-ETHOXY}-ETHOXY}-ETHOXY}-ETHOXY}-ETHOXY}-ETHOXY



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	С	1	Total C O 7 4 3	0	0

• Molecule 5 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	38	Total O 38 38	0	0
5	В	5	Total O 5 5	0	0
5	С	37	Total O 37 37	0	0
5	D	5	Total O 5 5	0	0

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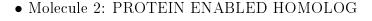
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	E	32	Total O 32 32	0	0
5	F	1	Total O 1 1	0	0
5	G	30	Total O 30 30	0	0



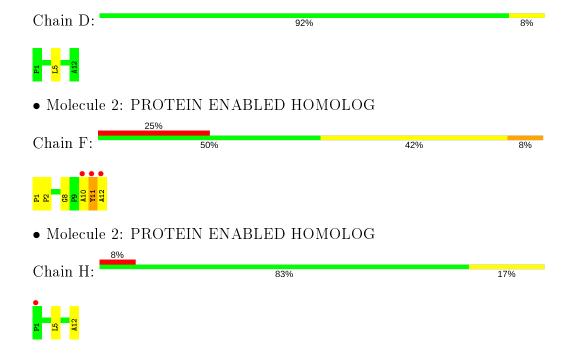
3 Residue-property plots (i)

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: DYNAMIN-BINDING PROTEIN Chain A: • Molecule 1: DYNAMIN-BINDING PROTEIN Chain C: • Molecule 1: DYNAMIN-BINDING PROTEIN Chain E: 81% 10% • Molecule 1: DYNAMIN-BINDING PROTEIN Chain G: 81% 10% • Molecule 2: PROTEIN ENABLED HOMOLOG Chain B: 25%









4 Data and refinement statistics (i)

Property	Value	Source
Space group	H 3	Depositor
Cell constants	115.87Å 115.87Å 73.08Å	Denesiten
a, b, c, α , β , γ	90.00° 90.00° 120.00°	Depositor
Resolution (Å)	34.33 - 1.97	Depositor
	34.33 - 1.97	EDS
% Data completeness	99.3 (34.33-1.97)	Depositor
(in resolution range)	99.3 (34.33-1.97)	EDS
R_{merge}	0.04	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	2.51 (at 1.97Å)	Xtriage
Refinement program	REFMAC 5.7.0029	Depositor
R, R_{free}	0.181 , 0.215	Depositor
	0.177 , 0.206	DCC
R_{free} test set	1282 reflections (5.00%)	wwPDB-VP
Wilson B-factor (\mathring{A}^2)	38.0	Xtriage
Anisotropy	0.354	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	$0.35\;,53.5$	EDS
L-test for twinning ²	$< L >=0.48, < L^2>=0.31$	Xtriage
Estimated twinning fraction	$\begin{array}{c} 0.015 \text{ for } -1/3*h+1/3*k+4/3*l,-k,2/3*h+1/\\ & 3*k+1/3*l\\ 0.015 \text{ for } -2/3*h-1/3*k-4/3*l,-1/3*h-2/3*k+\\ & 4/3*l,-1/3*h+1/3*k+1/3*l\\ 0.013 \text{ for } -h,1/3*h-1/3*k-4/3*l,-1/3*h-2/3*k\\ & +1/3*l\\ 0.027 \text{ for } -1/3*h-2/3*k+4/3*l,-2/3*h-1/3*k-\\ & 4/3*l,1/3*h-1/3*k-1/3*l\\ 0.013 \text{ for } -h,2/3*h+1/3*k+4/3*l,1/3*h+2/3\\ & *k-1/3*l\\ 0.012 \text{ for } 1/3*h+2/3*k-4/3*l,-k,-2/3*h-1/3*\\ & k-1/3*l\\ 0.029 \text{ for } h,-h-k,-l \end{array}$	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	2573	wwPDB-VP
Average B, all atoms (Å ²)	47.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 4.17% of the height of the origin peak. No significant pseudotranslation is detected.

²Theoretical values of <|L|>, $< L^2>$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.



¹Intensities estimated from amplitudes.

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: PE4, 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	Boı	nd lengths	Bo	nd angles
WIOI	Moi Chain		# Z > 5	RMSZ	# Z > 5
1	A	1.07	1/547~(0.2%)	0.93	0/739
1	С	1.00	0/538	0.95	0/728
1	E	0.92	0/525	0.99	3/710 (0.4%)
1	G	0.97	0/549	0.96	$1/743 \ (0.1\%)$
2	В	0.89	0/89	0.96	0/124
2	D	0.84	0/89	0.84	0/124
2	F	1.16	0/89	1.24	$1/124 \ (0.8\%)$
2	Н	0.81	0/89	0.93	0/124
All	All	0.98	$1/2515 \ (0.0\%)$	0.96	5/3416 (0.1%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\operatorname{\AA})$	$\operatorname{Ideal}(ext{\AA})$
1	Α	1527	ARG	CD-NE	5.64	1.56	1.46

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\mathbf{Observed}(^o)$	$\operatorname{Ideal}({}^o)$
1	Е	1521	VAL	CB-CA-C	-5.39	101.16	111.40
2	F	8	GLY	N-CA-C	-5.20	100.09	113.10
1	G	1575	GLU	N-CA-C	5.13	124.85	111.00
1	Е	1516[A]	GLN	N-CA-CB	5.10	119.78	110.60
1	Е	1516[B]	GLN	N-CA-CB	5.10	119.78	110.60

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	$\mathbf{H}(\mathbf{model})$	$\mathbf{H}(\mathbf{added})$	Clashes	Symm-Clashes
1	Α	523	0	529	9	0
1	С	526	0	507	2	0
1	Ε	507	0	506	5	0
1	G	527	0	525	4	0
2	В	83	0	82	1	0
2	D	83	0	82	0	0
2	F	83	0	82	3	1
2	Н	83	0	82	0	1
3	A	1	0	0	0	0
3	С	1	0	0	0	0
3	Ε	1	0	0	0	0
4	С	7	0	9	1	0
5	A	38	0	0	4	0
5	В	5	0	0	0	0
5	С	37	0	0	1	0
5	D	5	0	0	2	0
5	Ε	32	0	0	3	0
5	F	1	0	0	0	0
5	G	30	0	0	1	0
All	All	2573	0	2404	24	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 5.

The worst 5 of 24 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	$egin{aligned} ext{Interatomic} \ ext{distance} \ (ext{Å}) \end{aligned}$	$egin{aligned} ext{Clash} \ ext{overlap } (ext{Å}) \end{aligned}$
1:E:1516[B]:GLN:NE2	5:E:2005:HOH:O	1.62	1.22
1:A:1516[A]:GLN:OE1	5:A:2004:HOH:O	1.74	1.03
1:C:1513[B]:GLU:O	1:C:1514[B]:GLY:O	1.80	0.98
1:E:1516[B]:GLN:CD	5:E:2005:HOH:O	2.04	0.82
4:C:2577:PE4:H11	1:E:1527:ARG:O	1.83	0.79

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	$egin{array}{c} ext{Interatomic} \ ext{distance } (ext{Å}) \end{array}$	Clash overlap (Å)
2:F:10:ALA:O	2:H:12:ALA:O[3_555]	2.08	0.12

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	Perce	\mathbf{ntiles}
1	A	63/67~(94%)	61 (97%)	2 (3%)	0	100	100
1	С	63/67~(94%)	61 (97%)	0	2 (3%)	4	0
1	E	59/67~(88%)	58 (98%)	1 (2%)	0	100	100
1	G	63/67 (94%)	59 (94%)	2 (3%)	2 (3%)	4	0
2	В	10/12~(83%)	10 (100%)	0	0	100	100
2	D	10/12~(83%)	10 (100%)	0	0	100	100
2	F	10/12~(83%)	10 (100%)	0	0	100	100
2	Н	10/12~(83%)	10 (100%)	0	0	100	100
All	All	$288/316 \ (91\%)$	279 (97%)	5 (2%)	4 (1%)	14	3

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	С	1514[A]	GLY
1	С	1514[B]	GLY
1	G	1517	VAL
1	G	1576	TYR

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, a	and the	total	number	of	residues.
-------------	---------	-------	--------	----	-----------

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	58/58 (100%)	53 (91%)	5 (9%)	10 2
1	С	$54/58 \; (93\%)$	51 (94%)	3 (6%)	21 9
1	E	$55/58 \; (95\%)$	54 (98%)	1 (2%)	59 51
1	G	57/58 (98%)	54 (95%)	3 (5%)	22 10
2	В	9/9 (100%)	8 (89%)	1 (11%)	6 1
2	D	9/9 (100%)	8 (89%)	1 (11%)	6 1
2	F	9/9 (100%)	8 (89%)	1 (11%)	6 1
2	Н	9/9 (100%)	8 (89%)	1 (11%)	6 1
All	All	260/268 (97%)	244 (94%)	16 (6%)	21 8

5 of 16 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	С	1559	VAL
1	С	1575	GLU
1	G	1559	VAL
1	С	1517	VAL
1	G	1572[A]	ARG

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	1569	ASN
1	С	1515	ASN

5.3.3 RNA (i)

There are no RNA molecules in this entry.

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

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates (i)

There are no carbohydrates in this entry.



5.6 Ligand geometry (i)

Of 4 ligands modelled in this entry, 3 are monoatomic - leaving 1 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	B	ond leng	${ m gths}$	E	Bond an	gles
MIOI	туре	Chain	nes	Lilik	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
4	PE4	С	2577	-	6,6,23	1.70	1 (16%)	5,5,22	2.45	5 (100%)

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
4	PE4	С	2577	-	-	3/4/4/21	-

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\mathbf{Observed}(\mathbf{\mathring{A}})$	$\operatorname{Ideal}(ext{\AA})$
4	С	2577	PE4	O2-C3	2.01	1.50	1.42

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$\operatorname{Ideal}({}^o)$
4	С	2577	PE4	O2-C3-C4	3.33	124.68	110.07
4	С	2577	PE4	O3-C4-C3	2.30	125.14	111.81
4	С	2577	PE4	C3-O2-C2	2.27	123.13	113.29
4	С	2577	PE4	O1-C1-C2	2.08	123.88	111.81
4	С	2577	PE4	O2-C2-C1	2.02	118.93	110.07

There are no chirality outliers.

All (3) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	С	2577	PE4	C1-C2-O2-C3
4	С	2577	PE4	O2-C3-C4-O3

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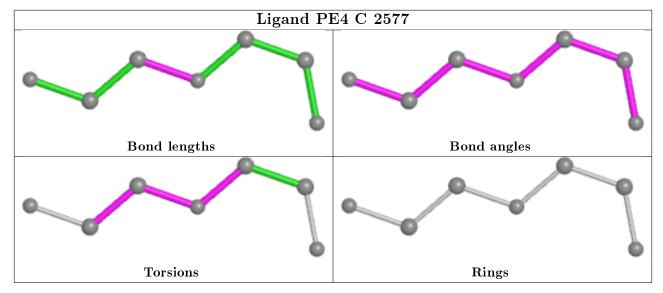
Mol	Chain	Res	Type	Atoms
4	С	2577	PE4	C4-C3-O2-C2

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	С	2577	PE4	1	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 then 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, 95^{th} 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>	$\#\mathrm{RSRZ}{>}2$	$\mathbf{OWAB}(\mathrm{\AA}^2)$	Q < 0.9
1	A	61/67 (91%)	0.21	1 (1%) 72 73	29, 43, 64, 81	0
1	С	64/67 (95%)	-0.18	1 (1%) 72 73	31, 44, 68, 88	0
1	E	60/67 (89%)	-0.03	2 (3%) 46 49	32, 46, 65, 100	0
1	G	$62/67 \; (92\%)$	-0.06	0 100 100	30, 42, 69, 96	0
2	В	12/12 (100%)	-0.03	0 100 100	36, 49, 61, 64	0
2	D	12/12 (100%)	0.06	0 100 100	38, 47, 56, 78	0
2	F	12/12 (100%)	1.09	3 (25%) 0 0	38, 47, 83, 91	0
2	Н	12/12 (100%)	0.51	1 (8%) 11 12	48, 63, 74, 84	0
All	All	295/316~(93%)	0.05	8 (2%) 54 56	29, 46, 73, 100	0

The worst 5 of 8 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	F	10	ALA	4.4
2	F	11	TYR	4.4
1	E	1574	THR	4.0
2	Н	1	PRO	3.2
2	F	12	ALA	3.0

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 carbohydrates in this entry.

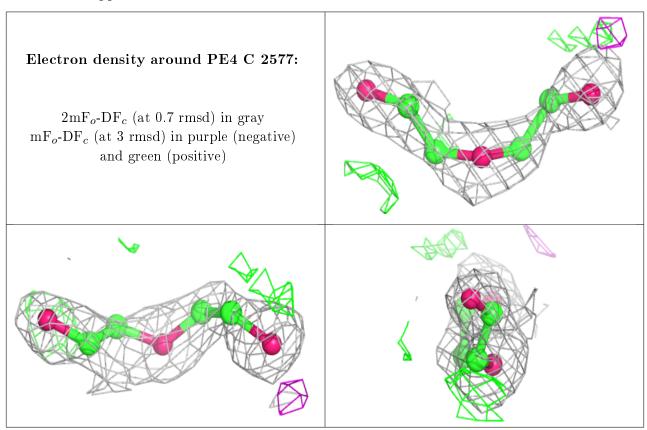


6.4 Ligands (i)

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, 95^{th} 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	${f B\text{-factors}}({f \AA}^2)$	Q < 0.9
4	PE4	С	2577	7/24	0.90	0.15	47,56,64,66	0
3	CL	E	2576	1/1	0.96	0.05	48,48,48,48	0
3	CL	A	2576	1/1	0.97	0.11	50,50,50,50	0
3	CL	С	2576	1/1	0.98	0.09	51,51,51,51	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.

