



wwPDB X-ray Structure Validation Summary Report ⓘ

Jan 31, 2016 – 06:29 PM GMT

PDB ID : 1AYP
Title : A PROBE MOLECULE COMPOSED OF SEVENTEEN PERCENT OF
TOTAL DIFFRACTING MATTER GIVES CORRECT SOLUTIONS IN
MOLECULAR REPLACEMENT
Authors : Oh, B.-H.
Deposited on : 1994-07-19
Resolution : 2.57 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
<http://wwpdb.org/validation/2016/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 (RC4), CSD as536be (2015)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20026688
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk26865

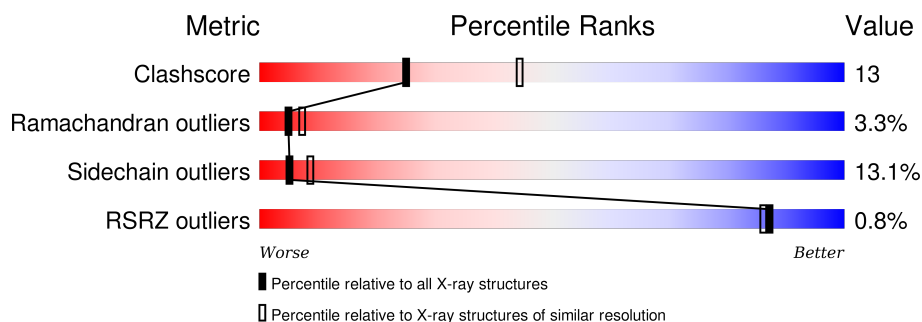
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.57 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))
Clashscore	102246	3003 (2.60-2.56)
Ramachandran outliers	100387	2956 (2.60-2.56)
Sidechain outliers	100360	2956 (2.60-2.56)
RSRZ outliers	91569	2642 (2.60-2.56)

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	124	<div> <div>2%</div> <div>56% 27% 16%</div> </div>
1	B	124	<div> <div>58% 31% 8%</div> </div>
1	C	124	<div> <div>53% 35% 9%</div> </div>
1	D	124	<div> <div>63% 27% 8%</div> </div>
1	E	124	<div> <div>% 55% 34% 8%</div> </div>
1	F	124	<div> <div>2%</div> <div>57% 35% 7%</div> </div>

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
3	INB	A	201	-	-	-	X

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 5988 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.

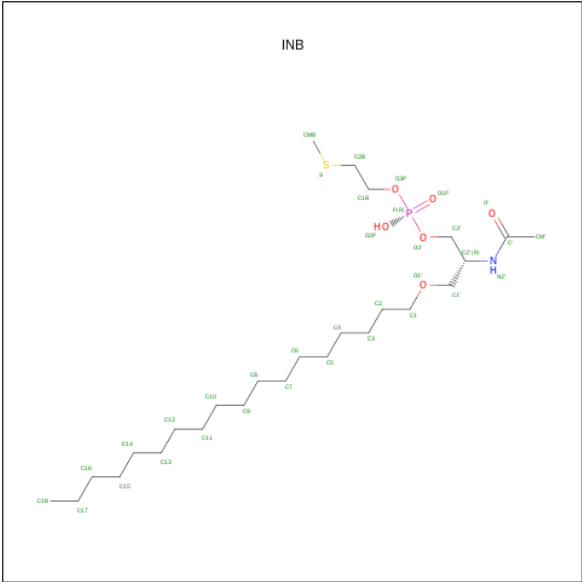
- Molecule 1 is a protein called PHOSPHOLIPASE A2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	124	Total	C	N	O	S	0	0	0
			960	586	181	178	15			
1	B	124	Total	C	N	O	S	0	0	0
			960	586	181	178	15			
1	C	124	Total	C	N	O	S	0	0	0
			960	586	181	178	15			
1	D	124	Total	C	N	O	S	0	0	0
			960	586	181	178	15			
1	E	124	Total	C	N	O	S	0	0	0
			960	586	181	178	15			
1	F	124	Total	C	N	O	S	0	0	0
			960	586	181	178	15			

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

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	D	2	Total	Ca	0	0
			2	2		
2	E	2	Total	Ca	0	0
			2	2		
2	B	2	Total	Ca	0	0
			2	2		
2	C	2	Total	Ca	0	0
			2	2		
2	A	2	Total	Ca	0	0
			2	2		
2	F	2	Total	Ca	0	0
			2	2		

- Molecule 3 is 1-OCTADECYL-2-ACETAMIDO-2-DEOXY-SN-GLYCEROL-3-PHOSPHOETHYLMETHYL SULFIDE (three-letter code: INB) (formula: C₂₆H₅₄NO₆PS).



Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
3	A	1	Total	C	N	O	P	S	0	0
			35	26	1	6	1	1		
3	B	1	Total	C	N	O	P	S	0	0
			35	26	1	6	1	1		
3	C	1	Total	C	N	O	P	S	0	0
			35	26	1	6	1	1		
3	D	1	Total	C	N	O	P	S	0	0
			35	26	1	6	1	1		
3	E	1	Total	C	N	O	P	S	0	0
			35	26	1	6	1	1		
3	F	1	Total	C	N	O	P	S	0	0
			35	26	1	6	1	1		

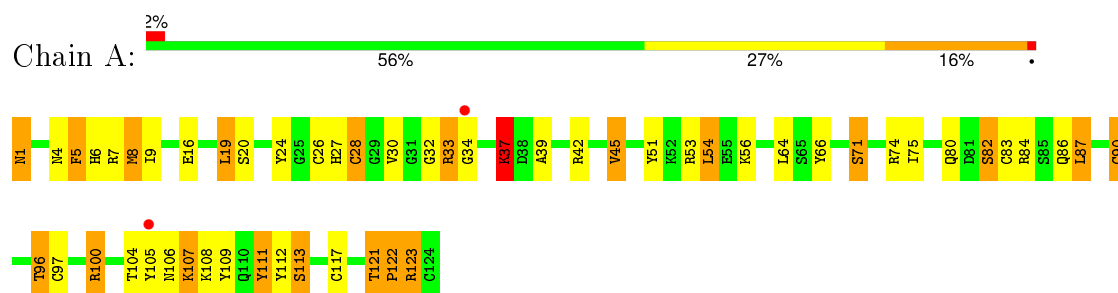
- Molecule 4 is water.

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

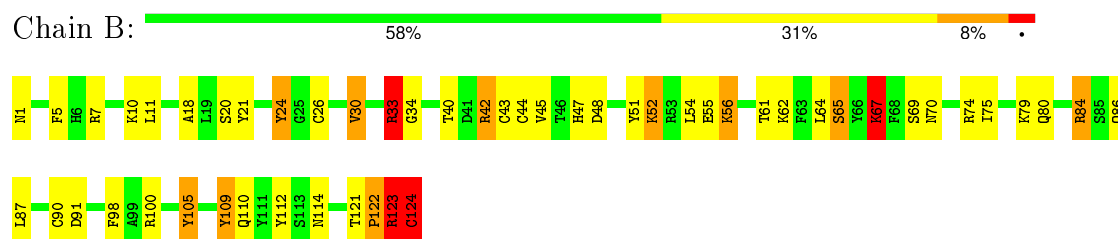
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of 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 ($\text{RSRZ} > 2$). 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.

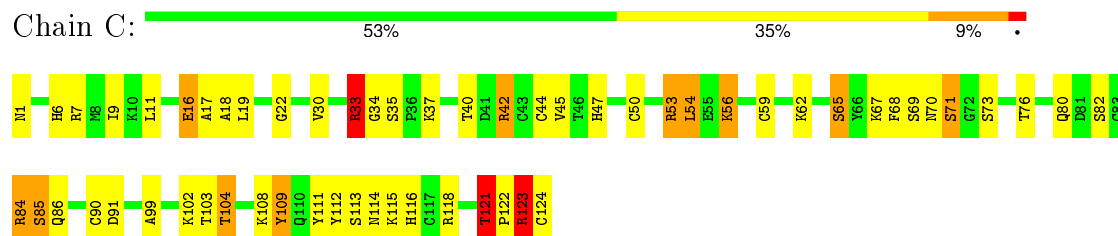
• Molecule 1: PHOSPHOLIPASE A2



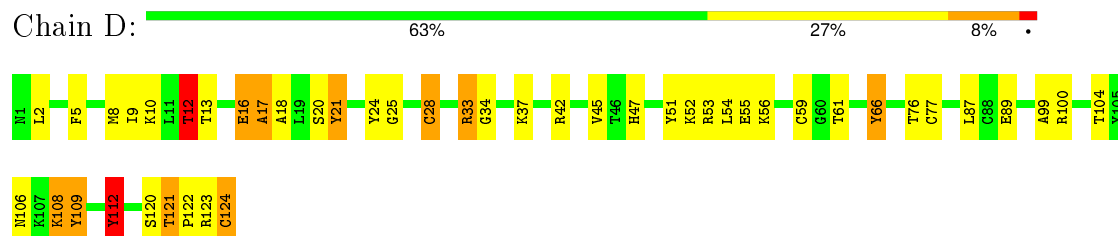
• Molecule 1: PHOSPHOLIPASE A2



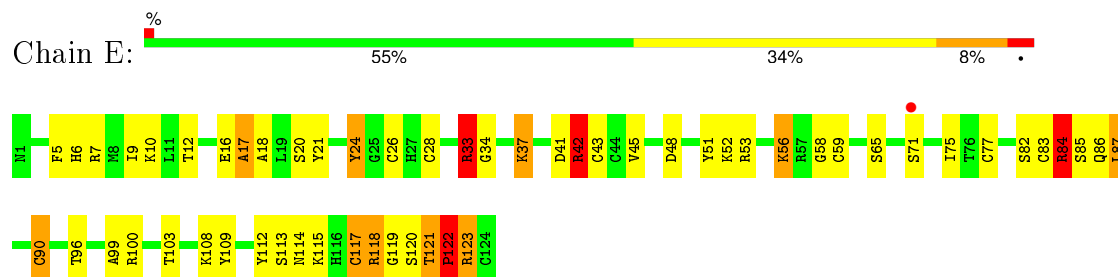
• Molecule 1: PHOSPHOLIPASE A2



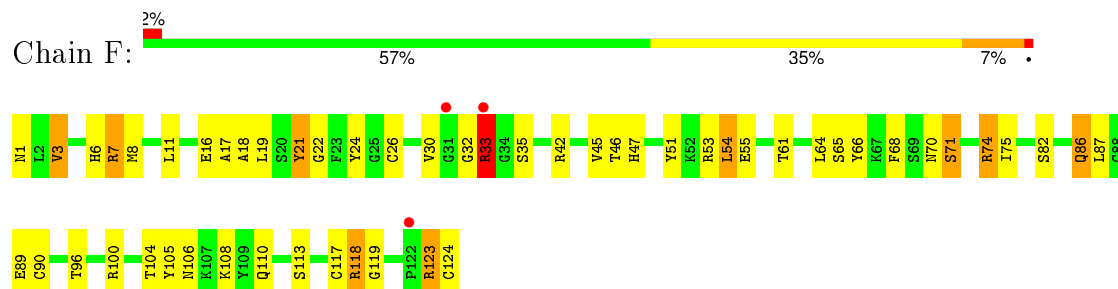
• Molecule 1: PHOSPHOLIPASE A2



- Molecule 1: PHOSPHOLIPASE A2



- Molecule 1: PHOSPHOLIPASE A2



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	64.51Å 114.72Å 64.43Å 90.00° 120.13° 90.00°	Depositor
Resolution (Å)	8.00 – 2.57 55.72 – 2.57	Depositor EDS
% Data completeness (in resolution range)	(Not available) (8.00-2.57) 85.9 (55.72-2.57)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.26 (at 2.58Å)	Xtriage
Refinement program	X-PLOR	Depositor
R, R_{free}	0.214 , (Not available) 0.198 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	DCC
Wilson B-factor (Å ²)	27.4	Xtriage
Anisotropy	0.083	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 59.4	EDS
Estimated twinning fraction	0.031 for l,k,-h-l 0.031 for -h-l,k,h 0.416 for l,-k,h 0.035 for -h-l,-k,l 0.039 for h,-k,-h-l	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Outliers	0 of 22200 reflections	Xtriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	5988	wwPDB-VP
Average B, all atoms (Å ²)	19.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.31% of the height of the origin peak. No significant pseudotranslation is detected.*

¹ Intensities estimated from amplitudes.

² Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.375 respectively for untwinned datasets, and 0.333, 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: CA, INB

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	1.12	2/978 (0.2%)	1.93	23/1305 (1.8%)
1	B	1.04	1/978 (0.1%)	1.89	26/1305 (2.0%)
1	C	1.04	0/978	2.02	30/1305 (2.3%)
1	D	1.02	0/978	1.87	24/1305 (1.8%)
1	E	1.07	3/978 (0.3%)	1.94	24/1305 (1.8%)
1	F	1.07	1/978 (0.1%)	1.95	21/1305 (1.6%)
All	All	1.06	7/5868 (0.1%)	1.93	148/7830 (1.9%)

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	1
1	B	0	2
1	C	0	2
1	D	0	2
1	E	0	1
All	All	0	8

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

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	16	GLU	CB-CG	5.65	1.62	1.52
1	A	71	SER	CB-OG	5.37	1.49	1.42
1	B	65	SER	CA-CB	-5.37	1.44	1.52
1	E	16	GLU	CG-CD	5.27	1.59	1.51
1	F	123	ARG	NE-CZ	5.20	1.39	1.33

The worst 5 of 148 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	F	53	ARG	NE-CZ-NH1	13.49	127.04	120.30
1	F	33	ARG	NE-CZ-NH1	13.07	126.83	120.30
1	C	123	ARG	CA-C-N	-11.88	91.07	117.20
1	C	42	ARG	NE-CZ-NH1	10.47	125.54	120.30
1	E	84	ARG	NE-CZ-NH1	10.39	125.50	120.30

There are no chirality outliers.

5 of 8 planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	111	TYR	Sidechain
1	B	105	TYR	Sidechain
1	B	51	TYR	Sidechain
1	C	121	THR	Peptide
1	C	123	ARG	Mainchain

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	960	0	920	28	0
1	B	960	0	920	27	0
1	C	960	0	920	25	0
1	D	960	0	920	20	0
1	E	960	0	920	24	0
1	F	960	0	920	26	0
2	A	2	0	0	0	0
2	B	2	0	0	0	0
2	C	2	0	0	0	0
2	D	2	0	0	0	0
2	E	2	0	0	0	0
2	F	2	0	0	0	0
3	A	35	0	53	4	0
3	B	35	0	53	5	0
3	C	35	0	53	3	0
3	D	35	0	53	4	0
3	E	35	0	53	4	0
3	F	35	0	53	6	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	A	1	0	0	0	0
4	B	1	0	0	0	0
4	C	1	0	0	0	0
4	D	1	0	0	0	0
4	E	1	0	0	0	0
4	F	1	0	0	0	0
All	All	5988	0	5838	150	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 13.

The worst 5 of 150 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:F:106:ASN:HD21	1:F:108:LYS:HD2	1.50	0.77
1:C:53:ARG:HA	1:C:56:LYS:HD2	1.67	0.76
1:C:65:SER:O	1:C:84:ARG:HD3	1.90	0.72
1:E:26:CYS:SG	1:E:37:LYS:NZ	2.64	0.71
1:D:47:HIS:HB3	3:D:204:INB:HM'2	1.73	0.69

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	122/124 (98%)	108 (88%)	9 (7%)	5 (4%)	3	4
1	B	122/124 (98%)	112 (92%)	7 (6%)	3 (2%)	7	12
1	C	122/124 (98%)	107 (88%)	11 (9%)	4 (3%)	5	7
1	D	122/124 (98%)	114 (93%)	5 (4%)	3 (2%)	7	12
1	E	122/124 (98%)	108 (88%)	7 (6%)	7 (6%)	2	2

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	F	122/124 (98%)	114 (93%)	6 (5%)	2 (2%)	12	23
All	All	732/744 (98%)	663 (91%)	45 (6%)	24 (3%)	5	7

5 of 24 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	37	LYS
1	A	122	PRO
1	A	123	ARG
1	C	123	ARG
1	D	17	ALA

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	104/105 (99%)	90 (86%)	14 (14%)	5	8
1	B	104/105 (99%)	90 (86%)	14 (14%)	5	8
1	C	104/105 (99%)	93 (89%)	11 (11%)	8	15
1	D	104/105 (99%)	94 (90%)	10 (10%)	10	19
1	E	104/105 (99%)	88 (85%)	16 (15%)	3	5
1	F	104/105 (99%)	87 (84%)	17 (16%)	3	4
All	All	624/630 (99%)	542 (87%)	82 (13%)	5	9

5 of 82 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	C	104	THR
1	D	89	GLU
1	F	74	ARG
1	C	108	LYS
1	D	16	GLU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 7 such sidechains are listed below:

Mol	Chain	Res	Type
1	C	116	HIS
1	F	86	GLN
1	D	116	HIS
1	A	6	HIS
1	F	6	HIS

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 18 ligands modelled in this entry, 12 are monoatomic - leaving 6 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	$\# Z > 2$
3	INB	A	201	2	34,34,34	0.91	2 (5%)	34,38,38	1.37	5 (14%)
3	INB	B	202	2	34,34,34	0.80	0	34,38,38	0.98	1 (2%)
3	INB	C	203	2	34,34,34	0.80	0	34,38,38	1.32	3 (8%)
3	INB	D	204	2	34,34,34	0.76	0	34,38,38	1.16	2 (5%)
3	INB	E	205	2	34,34,34	1.03	1 (2%)	34,38,38	1.48	6 (17%)
3	INB	F	206	2	34,34,34	0.77	0	34,38,38	1.27	2 (5%)

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
3	INB	A	201	2	-	0/36/36/36	0/0/0/0
3	INB	B	202	2	-	0/36/36/36	0/0/0/0
3	INB	C	203	2	-	0/36/36/36	0/0/0/0
3	INB	D	204	2	-	0/36/36/36	0/0/0/0
3	INB	E	205	2	-	0/36/36/36	0/0/0/0
3	INB	F	206	2	-	0/36/36/36	0/0/0/0

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	201	INB	C3'-C2'	2.08	1.56	1.51
3	E	205	INB	C2-C1	2.46	1.61	1.50
3	A	201	INB	P-O3'	2.87	1.72	1.59

The worst 5 of 19 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	E	205	INB	C2'-N2'-C'	-5.53	115.94	122.67
3	C	203	INB	C2'-N2'-C'	-3.64	118.24	122.67
3	D	204	INB	C2'-N2'-C'	-3.14	118.85	122.67
3	F	206	INB	C2'-N2'-C'	-2.91	119.13	122.67
3	A	201	INB	C16-C15-C14	-2.69	100.65	114.53

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

6 monomers are involved in 26 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	201	INB	4	0
3	B	202	INB	5	0
3	C	203	INB	3	0
3	D	204	INB	4	0
3	E	205	INB	4	0
3	F	206	INB	6	0

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	124/124 (100%)	-0.05	2 (1%) 74 71	7, 18, 39, 47	0
1	B	124/124 (100%)	-0.22	0 100 100	7, 18, 40, 51	0
1	C	124/124 (100%)	-0.01	0 100 100	7, 16, 32, 44	0
1	D	124/124 (100%)	-0.15	0 100 100	6, 17, 41, 49	0
1	E	124/124 (100%)	-0.20	1 (0%) 87 86	7, 17, 32, 42	0
1	F	124/124 (100%)	-0.03	3 (2%) 62 58	7, 18, 38, 47	0
All	All	744/744 (100%)	-0.11	6 (0%) 87 86	6, 17, 38, 51	0

The worst 5 of 6 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	F	122	PRO	4.1
1	E	71	SER	2.6
1	F	31	GLY	2.5
1	F	33	ARG	2.4
1	A	105	TYR	2.4

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. 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	RSCC	RSR	LLDF	B-factors(Å ²)	Q<0.9
3	INB	A	201	35/35	0.93	0.24	2.79	6,10,31,35	0
3	INB	E	205	35/35	0.93	0.20	1.83	6,10,26,33	0
3	INB	D	204	35/35	0.95	0.19	1.32	6,10,31,38	0
3	INB	B	202	35/35	0.95	0.18	1.27	6,11,31,39	0
3	INB	F	206	35/35	0.96	0.19	0.90	6,13,29,34	0
3	INB	C	203	35/35	0.96	0.16	0.05	6,10,22,23	0
2	CA	E	309	1/1	0.99	0.09	-1.27	10,10,10,10	0
2	CA	F	311	1/1	0.97	0.06	-1.62	14,14,14,14	0
2	CA	D	308	1/1	0.97	0.08	-1.92	19,19,19,19	0
2	CA	F	312	1/1	0.99	0.08	-2.02	21,21,21,21	0
2	CA	D	307	1/1	0.99	0.08	-2.06	10,10,10,10	0
2	CA	B	303	1/1	0.98	0.08	-2.22	13,13,13,13	0
2	CA	C	306	1/1	0.95	0.08	-2.28	21,21,21,21	0
2	CA	C	305	1/1	0.98	0.07	-2.64	18,18,18,18	0
2	CA	A	302	1/1	0.98	0.07	-2.95	24,24,24,24	0
2	CA	E	310	1/1	0.97	0.07	-3.01	21,21,21,21	0
2	CA	A	301	1/1	0.98	0.04	-3.62	7,7,7,7	0
2	CA	B	304	1/1	0.98	0.08	-3.79	18,18,18,18	0

6.5 Other polymers [i](#)

There are no such residues in this entry.