



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2026 – 11:44 PM UTC

PDB ID : 1IGB / pdb_00001igb
Title : AEROMONAS PROTEOLYTICA AMINOPEPTIDASE COMPLEXED
WITH THE INHIBITOR PARA-iodo-D-PHENYLALANINE HYDROX-
MATE
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Deposited on : 1996-02-27
Resolution : 2.30 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 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

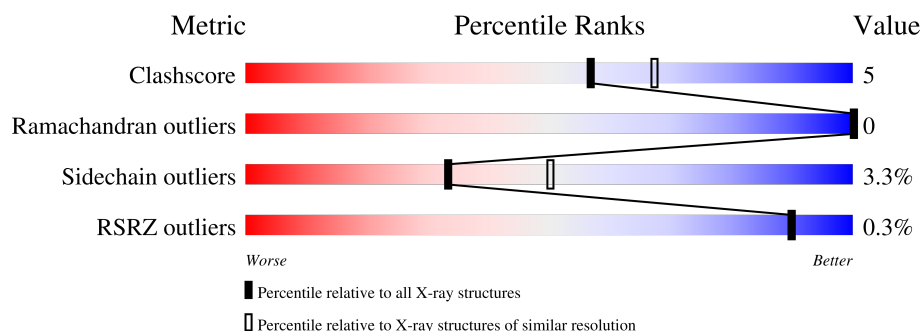
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.30 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	190562	6919 (2.30-2.30)
Ramachandran outliers	187476	6854 (2.30-2.30)
Sidechain outliers	187428	6854 (2.30-2.30)
RSRZ outliers	180081	6325 (2.30-2.30)

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	291	

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 3374 atoms, of which 928 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.

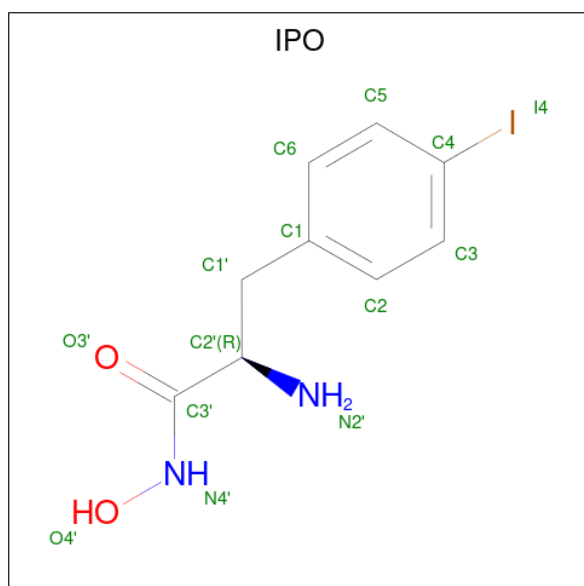
- Molecule 1 is a protein called AMINOPEPTIDASE.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	291	Total	C	H	N	O	S	0	0	0
			2696	1378	486	366	457	9			

- Molecule 2 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	2	Total	Zn	0	0
			2	2		

- Molecule 3 is PARA-IODO-D-PHENYLALANINE HYDROXAMIC ACID (CCD ID: IPO) (formula: C₉H₁₁IN₂O₂).



Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
3	A	1	Total	C	H	I	N	O	0	0
			16	9	2	1	2	2		

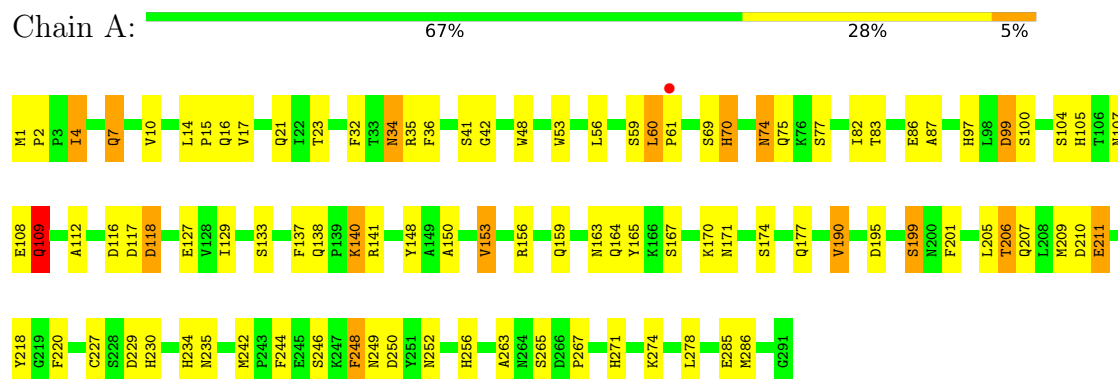
- Molecule 4 is water.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	220	Total	H	O	0	0
			660	440	220		

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: AMINOPEPTIDASE



4 Data and refinement statistics

Property	Value	Source
Space group	P 61 2 2	Depositor
Cell constants a, b, c, α , β , γ	109.15Å 109.15Å 98.35Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	8.00 – 2.30 8.00 – 2.30	Depositor EDS
% Data completeness (in resolution range)	90.4 (8.00-2.30) 84.5 (8.00-2.30)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	3.98 (at 2.29Å)	Xtriage
Refinement program	X-PLOR 3.1	Depositor
R, R_{free}	0.160 , 0.241 0.164 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å ²)	18.7	Xtriage
Anisotropy	0.465	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.24 , 43.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.51$, $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	3374	wwPDB-VP
Average B, all atoms (Å ²)	11.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.67% 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: IPO, ZN

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	1.07	9/2261 (0.4%)	2.03	86/3085 (2.8%)

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

All (9) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	70	HIS	CD2-NE2	-6.90	1.30	1.37
1	A	256	HIS	CD2-NE2	-6.35	1.30	1.37
1	A	97	HIS	CD2-NE2	-6.29	1.30	1.37
1	A	256	HIS	CG-ND1	-6.21	1.31	1.38
1	A	271	HIS	CD2-NE2	-6.10	1.31	1.37
1	A	234	HIS	CD2-NE2	-5.93	1.31	1.37
1	A	230	HIS	CD2-NE2	-5.46	1.31	1.37
1	A	105	HIS	CD2-NE2	-5.16	1.32	1.37
1	A	159	GLN	CA-CB	-5.14	1.45	1.53

All (86) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	60	LEU	N-CA-C	10.82	122.04	109.60
1	A	195	ASP	CA-CB-CG	9.73	122.33	112.60
1	A	118	ASP	CA-CB-CG	9.30	121.90	112.60
1	A	153	VAL	N-CA-CB	-9.30	95.88	111.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	7	GLN	OE1-CD-NE2	-8.37	114.23	122.60
1	A	156	ARG	N-CA-C	8.12	120.21	111.36
1	A	140	LYS	CA-CB-CG	-8.04	98.02	114.10
1	A	163	ASN	OD1-CG-ND2	-7.98	114.62	122.60
1	A	150	ALA	N-CA-C	7.65	121.96	112.47
1	A	153	VAL	CB-CA-C	7.63	123.80	111.29
1	A	252	ASN	OD1-CG-ND2	-7.41	115.19	122.60
1	A	108	GLU	N-CA-C	7.24	120.09	111.33
1	A	199	SER	N-CA-C	7.13	119.91	111.71
1	A	1	MET	CA-C-N	7.08	124.76	119.66
1	A	1	MET	C-N-CA	7.08	124.76	119.66
1	A	235	ASN	OD1-CG-ND2	-7.08	115.52	122.60
1	A	99	ASP	CA-CB-CG	6.90	119.50	112.60
1	A	242	MET	CG-SD-CE	6.85	115.96	100.90
1	A	210	ASP	CA-CB-CG	6.79	119.39	112.60
1	A	97	HIS	CA-CB-CG	6.79	120.59	113.80
1	A	206	THR	N-CA-C	-6.78	103.96	111.82
1	A	227	CYS	N-CA-C	6.73	121.50	113.16
1	A	109	GLN	OE1-CD-NE2	-6.64	115.96	122.60
1	A	177	GLN	OE1-CD-NE2	-6.61	115.99	122.60
1	A	2	PRO	O-C-N	-6.59	118.05	121.15
1	A	34	ASN	OD1-CG-ND2	-6.57	116.03	122.60
1	A	265	SER	CA-C-O	-6.55	116.03	119.77
1	A	164	GLN	OE1-CD-NE2	-6.50	116.11	122.60
1	A	100	SER	O-C-N	-6.45	115.37	123.17
1	A	271	HIS	CB-CG-CD2	-6.29	123.03	131.20
1	A	129	ILE	N-CA-C	6.24	116.41	110.42
1	A	211	GLU	N-CA-C	6.24	119.01	111.40
1	A	234	HIS	CB-CG-CD2	-6.23	123.10	131.20
1	A	118	ASP	N-CA-CB	-6.22	99.92	110.50
1	A	53	TRP	CG-CD2-CE3	6.22	140.12	133.90
1	A	82	ILE	N-CA-C	-6.22	99.41	108.11
1	A	7	GLN	N-CA-C	6.21	119.70	111.75
1	A	229	ASP	N-CA-C	6.16	118.79	111.71
1	A	104	SER	CA-CB-OG	6.13	123.37	111.10
1	A	74	ASN	N-CA-C	6.10	120.73	113.28
1	A	7	GLN	CG-CD-NE2	6.10	125.55	116.40
1	A	16	GLN	OE1-CD-NE2	-6.07	116.53	122.60
1	A	83	THR	CA-CB-OG1	-5.97	100.64	109.60
1	A	10	VAL	CA-C-O	-5.91	114.91	121.17
1	A	250	ASP	CA-CB-CG	5.87	118.47	112.60
1	A	118	ASP	N-CA-C	5.86	127.42	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	36	PHE	CA-CB-CG	5.83	119.63	113.80
1	A	252	ASN	CA-CB-CG	5.78	118.38	112.60
1	A	148	TYR	CB-CA-C	-5.77	99.78	109.53
1	A	274	LYS	CG-CD-CE	-5.71	98.16	111.30
1	A	207	GLN	OE1-CD-NE2	-5.71	116.89	122.60
1	A	246	SER	N-CA-C	5.69	115.91	107.88
1	A	129	ILE	O-C-N	-5.67	116.36	121.91
1	A	234	HIS	N-CA-C	5.58	117.80	111.11
1	A	190	VAL	O-C-N	-5.56	117.20	123.20
1	A	97	HIS	CB-CG-CD2	-5.52	124.03	131.20
1	A	4	ILE	N-CA-CB	-5.51	104.53	111.31
1	A	156	ARG	CA-CB-CG	-5.48	103.15	114.10
1	A	285	GLU	N-CA-C	5.47	116.94	110.97
1	A	14	LEU	CA-C-N	5.46	125.80	119.47
1	A	14	LEU	C-N-CA	5.46	125.80	119.47
1	A	244	PHE	CA-CB-CG	5.43	119.23	113.80
1	A	271	HIS	CB-CG-ND1	5.42	130.83	122.70
1	A	127	GLU	CB-CG-CD	5.35	121.69	112.60
1	A	278	LEU	CA-C-N	5.30	125.87	119.98
1	A	278	LEU	C-N-CA	5.30	125.87	119.98
1	A	59	SER	CA-C-N	5.29	128.18	120.51
1	A	59	SER	C-N-CA	5.29	128.18	120.51
1	A	248	PHE	CA-C-O	-5.29	115.25	121.07
1	A	48	TRP	CE2-CD2-CG	-5.26	100.88	107.20
1	A	137	PHE	CA-CB-CG	5.24	119.04	113.80
1	A	32	PHE	N-CA-C	-5.22	102.55	110.28
1	A	87	ALA	O-C-N	-5.21	117.01	121.23
1	A	220	PHE	O-C-N	-5.20	117.23	123.27
1	A	10	VAL	CG1-CB-CG2	-5.18	99.40	110.80
1	A	171	ASN	OD1-CG-ND2	-5.17	117.43	122.60
1	A	34	ASN	CA-CB-CG	5.16	117.76	112.60
1	A	167	SER	N-CA-C	-5.11	106.55	112.89
1	A	21	GLN	OE1-CD-NE2	-5.10	117.50	122.60
1	A	17	VAL	N-CA-C	-5.08	102.51	109.37
1	A	138	GLN	OE1-CD-NE2	-5.07	117.53	122.60
1	A	23	THR	CA-C-N	5.07	125.57	119.94
1	A	23	THR	C-N-CA	5.07	125.57	119.94
1	A	148	TYR	N-CA-C	5.05	118.17	110.20
1	A	167	SER	CA-CB-OG	5.02	121.14	111.10
1	A	15	PRO	N-CA-C	5.01	121.08	113.81

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	117	ASP	Mainchain,Peptide

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	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2210	486	2077	20	1
2	A	2	0	0	0	0
3	A	14	2	10	3	0
4	A	220	440	0	0	2
All	All	2446	928	2087	20	2

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.

All (20) 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:A:60:LEU:HD13	1:A:133:SER:HA	1.61	0.82
1:A:248:PHE:HD2	3:A:520:IPO:I4	2.36	0.79
1:A:248:PHE:CD2	3:A:520:IPO:I4	3.13	0.71
1:A:60:LEU:HD12	1:A:61:PRO:HD2	1.75	0.69
1:A:86:GLU:HG3	1:A:140:LYS:HG2	1.85	0.57
1:A:35:ARG:HA	1:A:42:GLY:HA2	1.87	0.56
1:A:4:ILE:HG21	1:A:211:GLU:HG2	1.89	0.54
1:A:248:PHE:HA	3:A:520:IPO:I4	2.84	0.47
1:A:116:ASP:O	1:A:118:ASP:HA	2.15	0.46
1:A:34:ASN:HB2	1:A:112:ALA:HB3	1.98	0.46
1:A:205:LEU:O	1:A:209:MET:HG3	2.16	0.46
1:A:174:SER:HB2	1:A:201:PHE:CE2	2.53	0.44
1:A:70:HIS:HE1	1:A:77:SER:OG	2.00	0.44
1:A:75:GLN:HE22	1:A:99:ASP:HB3	1.82	0.44
1:A:190:VAL:O	1:A:218:TYR:HA	2.18	0.44
1:A:165:TYR:CE2	1:A:170:LYS:HD2	2.53	0.43
1:A:107:ASN:OD1	1:A:109:GLN:HG3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:263:ALA:HA	1:A:267:PRO:HG3	2.01	0.42
1:A:141:ARG:HD2	1:A:286:MET:O	2.21	0.40
1:A:206:THR:HB	1:A:218:TYR:CZ	2.57	0.40

All (2) 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:720:HOH:H2	4:A:756:HOH:H2[11_655]	1.24	0.36
1:A:69:SER:HG	4:A:688:HOH:H1[11_655]	1.28	0.32

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	289/291 (99%)	281 (97%)	8 (3%)	0	100 100

There are no Ramachandran outliers to report.

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, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	239/239 (100%)	231 (97%)	8 (3%)	33 50

All (8) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	7	GLN
1	A	41	SER
1	A	56	LEU
1	A	74	ASN
1	A	109	GLN
1	A	153	VAL
1	A	199	SER
1	A	249	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (10) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	7	GLN
1	A	54	GLN
1	A	70	HIS
1	A	75	GLN
1	A	105	HIS
1	A	171	ASN
1	A	207	GLN
1	A	230	HIS
1	A	235	ASN
1	A	252	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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 3 ligands modelled in this entry, 2 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	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
3	IPO	A	520	2	13,14,14	1.61	1 (7%)	16,18,18	1.33	1 (6%)

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	IPO	A	520	2	-	3/10/10/10	0/1/1/1

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	520	IPO	O3'-C3'	4.70	1.32	1.23

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	520	IPO	C2'-C3'-N4'	4.18	122.55	115.93

There are no chirality outliers.

All (3) torsion outliers are listed below:

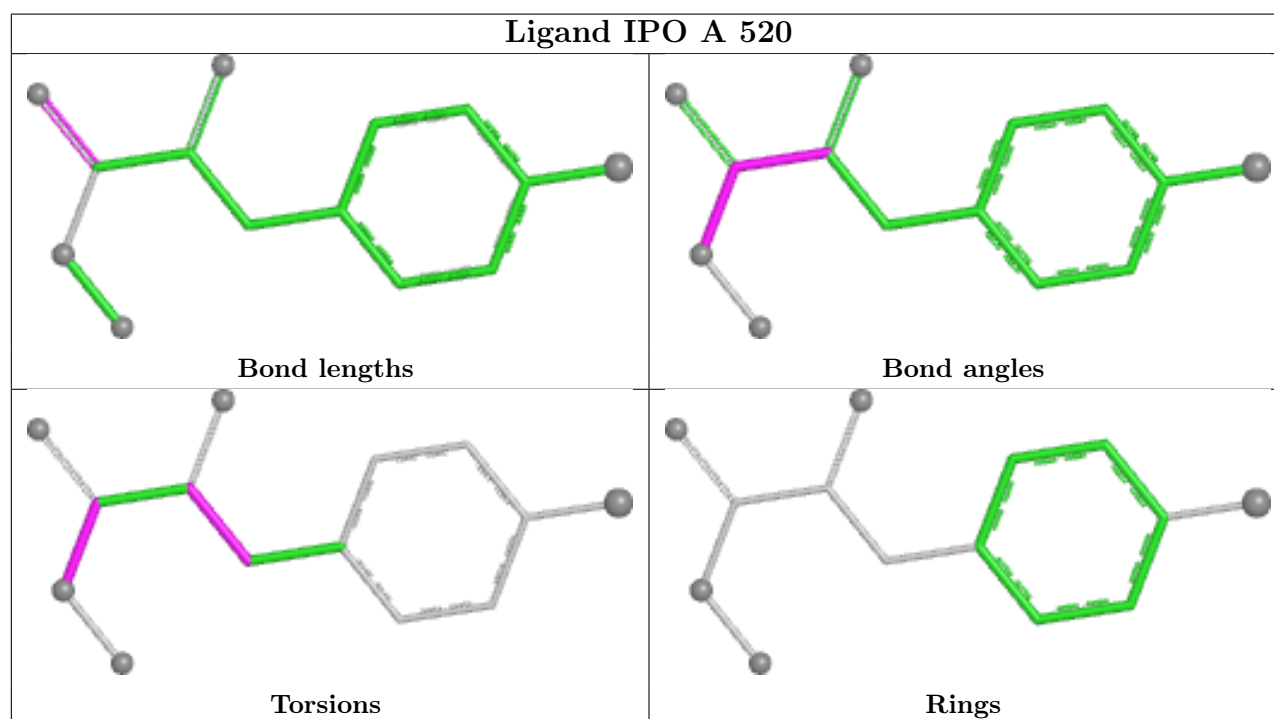
Mol	Chain	Res	Type	Atoms
3	A	520	IPO	C2'-C3'-N4'-O4'
3	A	520	IPO	C1-C1'-C2'-N2'
3	A	520	IPO	O3'-C3'-N4'-O4'

There are no ring outliers.

1 monomer is involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	520	IPO	3	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	291/291 (100%)	-0.82	1 (0%) 90 90	3, 9, 27, 52	0

All (1) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	61	PRO	2.7

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 oligosaccharides in this entry.

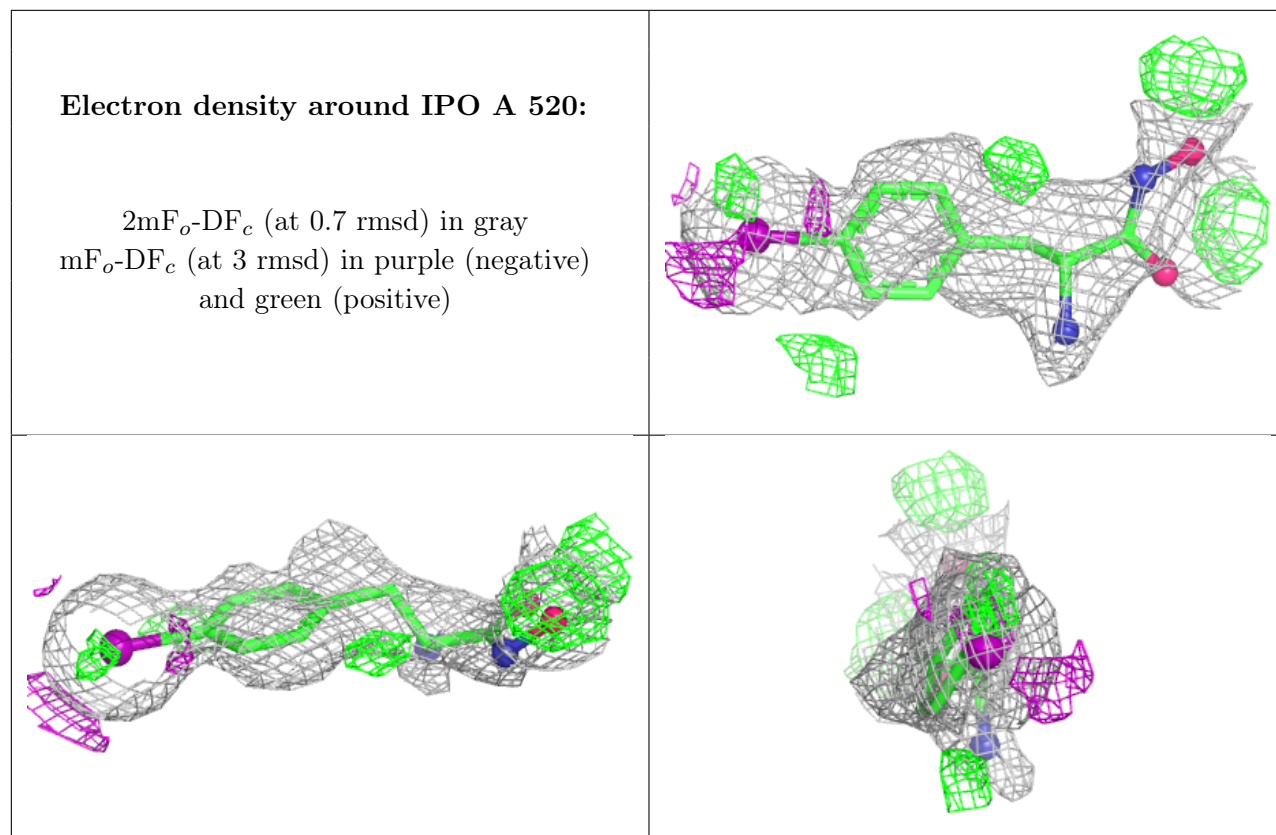
6.4 Ligands [i](#)

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(Å ²)	Q<0.9
3	IPO	A	520	14/14	0.98	0.08	0,30,44,49	0
2	ZN	A	501	1/1	0.99	0.08	14,14,14,14	0
2	ZN	A	502	1/1	1.00	0.08	14,14,14,14	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 ⓘ

There are no such residues in this entry.