



Full wwPDB X-ray Structure Validation Report ⓘ

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PDB ID : 3BEL / pdb_00003bel
Title : X-ray structure of EGFR in complex with oxime inhibitor
Authors : Abad, M.C.; Xu, G.; Neeper, M.P.; Struble, G.T.; Gaul, M.D.; Connolly, P.J.
Deposited on : 2007-11-19
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

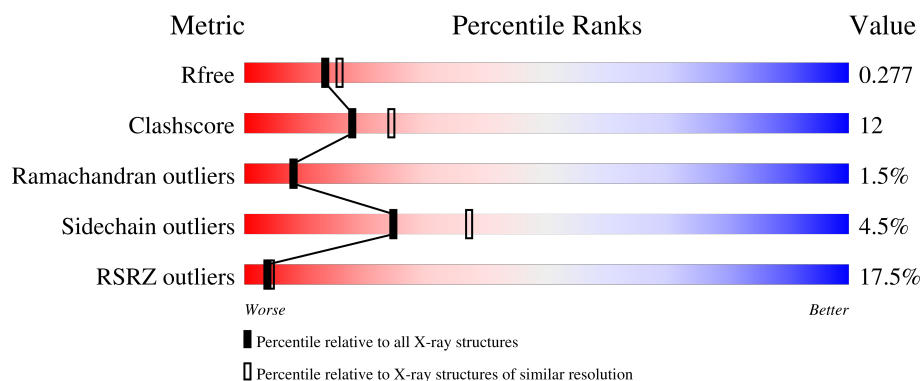
1 Overall quality at a glance

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))
R_{free}	180053	6319 (2.30-2.30)
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	315	16% 64% 22% • 11%

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 2318 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 Epidermal growth factor receptor.

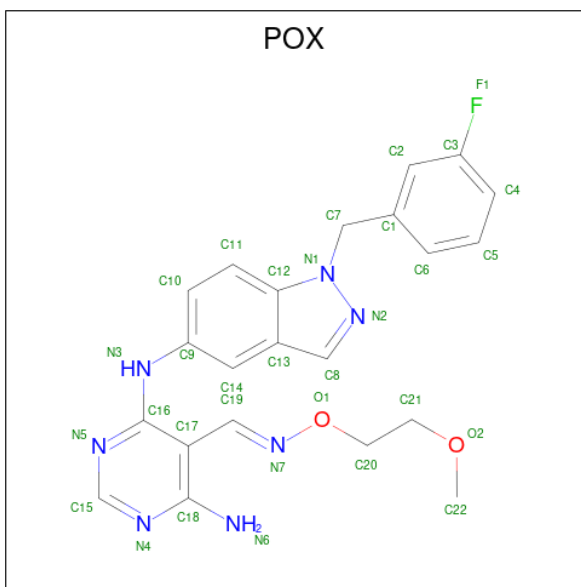
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	280	Total	C	N	O	S	0	0	0
			2249	1456	380	397	16			

- Molecule 2 is PHOSPHATE ION (CCD ID: PO4) (formula: O_4P).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
2	A	1	Total	O	P	0	0
			5	4	1		
2	A	1	Total	O	P	0	0
			5	4	1		

- Molecule 3 is 4-amino-6-{{[1-(3-fluorobenzyl)-1H-indazol-5-yl]amino}pyrimidine-5-carbaldehyde O-(2-methoxyethyl)oxime (CCD ID: POX) (formula: $C_{22}H_{22}FN_7O_2$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total	C	F	N	O	0	0
			32	22	1	7	2		

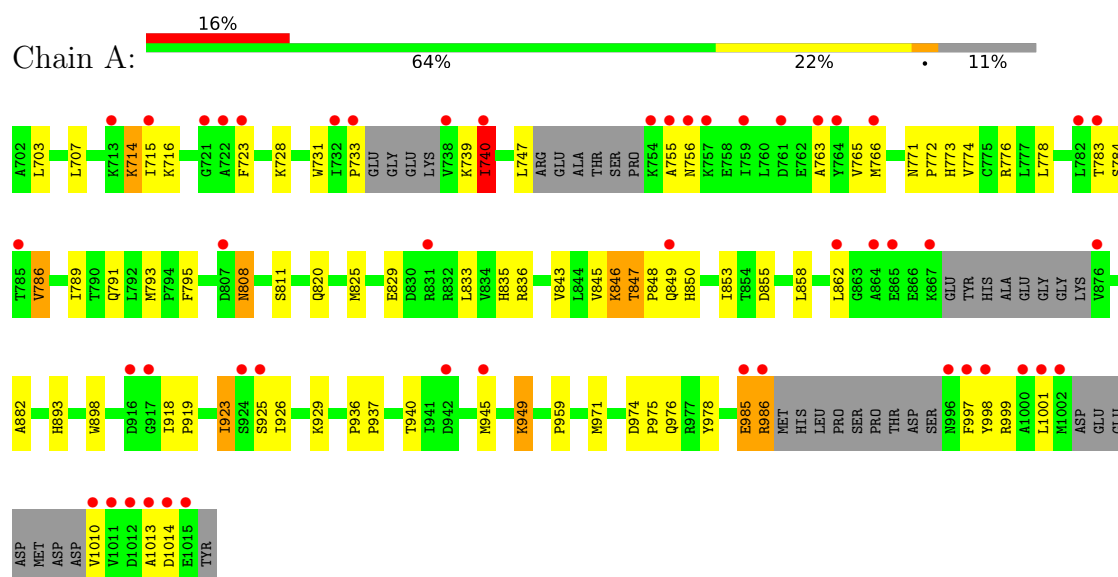
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	27	Total	O	0	0
			27	27		

3 Residue-property plots [i](#)

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: Epidermal growth factor receptor



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	45.50Å 67.69Å 103.25Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	50.00 – 2.30 50.00 – 2.30	Depositor EDS
% Data completeness (in resolution range)	97.0 (50.00-2.30) 97.0 (50.00-2.30)	Depositor EDS
R_{merge}	0.11	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	8.78 (at 2.29Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.241 , 0.281 0.234 , 0.277	Depositor DCC
R_{free} test set	1461 reflections (10.17%)	wwPDB-VP
Wilson B-factor (Å ²)	38.0	Xtriage
Anisotropy	0.460	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 39.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	2318	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 5.12% 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 [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: POX, PO4

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	0.45	0/2293	0.89	10/3096 (0.3%)

There are no bond length outliers.

All (10) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	940	THR	N-CA-C	-5.84	102.67	110.55
1	A	793	MET	CA-C-N	5.60	125.97	119.47
1	A	793	MET	C-N-CA	5.60	125.97	119.47
1	A	740	ILE	N-CA-C	5.59	114.10	107.73
1	A	843	VAL	N-CA-C	-5.56	100.39	108.17
1	A	846	LYS	N-CA-C	-5.51	105.19	111.14
1	A	923	ILE	N-CA-C	5.50	116.14	110.36
1	A	974	ASP	CA-C-N	5.39	124.85	119.24
1	A	974	ASP	C-N-CA	5.39	124.85	119.24
1	A	847	THR	N-CA-C	-5.17	102.19	108.14

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	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2249	0	2312	57	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	A	10	0	0	0	0
3	A	32	0	22	0	0
4	A	27	0	0	0	0
All	All	2318	0	2334	57	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 12.

All (57) 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:986:ARG:HG3	1:A:986:ARG:HH21	1.43	0.83
1:A:763:ALA:HA	1:A:766:MET:HE3	1.58	0.82
1:A:723:PHE:HD2	1:A:862:LEU:HD12	1.49	0.77
1:A:776:ARG:NH1	1:A:778:LEU:HD23	2.02	0.75
1:A:747:LEU:HD12	1:A:786:VAL:HG11	1.73	0.71
1:A:986:ARG:HG3	1:A:986:ARG:NH2	2.10	0.66
1:A:783:THR:HG22	1:A:784:SER:H	1.58	0.66
1:A:776:ARG:HH11	1:A:778:LEU:HD23	1.61	0.64
1:A:855:ASP:OD1	1:A:858:LEU:HD12	1.97	0.64
1:A:747:LEU:HD12	1:A:786:VAL:CG1	2.30	0.62
1:A:723:PHE:CD2	1:A:862:LEU:HD12	2.34	0.60
1:A:731:TRP:HE3	1:A:740:ILE:HD13	1.68	0.59
1:A:971:MET:HE2	1:A:978:TYR:CD2	2.39	0.58
1:A:776:ARG:HH12	1:A:778:LEU:HA	1.72	0.55
1:A:925:SER:O	1:A:929:LYS:HD3	2.07	0.55
1:A:772:PRO:O	1:A:850:HIS:HE1	1.89	0.55
1:A:765:VAL:HG11	1:A:833:LEU:HD21	1.89	0.54
1:A:783:THR:HG22	1:A:784:SER:N	2.21	0.54
1:A:714:LYS:NZ	1:A:714:LYS:HB2	2.24	0.53
1:A:998:TYR:CD1	1:A:998:TYR:N	2.76	0.53
1:A:829:GLU:HG3	1:A:893:HIS:CG	2.45	0.52
1:A:731:TRP:CE3	1:A:740:ILE:HD13	2.45	0.52
1:A:985:GLU:HB3	1:A:986:ARG:NH2	2.25	0.52
1:A:835:HIS:O	1:A:836:ARG:HB2	2.10	0.51
1:A:791:GLN:CD	1:A:1013:ALA:HB3	2.36	0.51
1:A:811:SER:OG	1:A:975:PRO:HB2	2.11	0.51
1:A:771:ASN:HB3	1:A:774:VAL:HG22	1.94	0.50
1:A:756:ASN:HD22	1:A:756:ASN:N	2.09	0.50
1:A:846:LYS:HE3	1:A:850:HIS:CG	2.46	0.50
1:A:998:TYR:CD2	1:A:1001:LEU:HD23	2.46	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:848:PRO:HB2	1:A:849:GLN:HE21	1.77	0.49
1:A:739:LYS:O	1:A:1010:VAL:HA	2.13	0.49
1:A:923:ILE:O	1:A:926:ILE:HG12	2.13	0.48
1:A:707:LEU:HD22	1:A:731:TRP:HE1	1.79	0.48
1:A:986:ARG:HD2	1:A:986:ARG:C	2.39	0.47
1:A:949:LYS:HE2	1:A:959:PRO:HG3	1.97	0.47
1:A:825:MET:SD	1:A:853:ILE:HD13	2.54	0.47
1:A:829:GLU:HG3	1:A:893:HIS:CD2	2.49	0.47
1:A:731:TRP:CZ2	1:A:733:PRO:HG3	2.51	0.46
1:A:795:PHE:HB2	1:A:845:VAL:HB	1.99	0.45
1:A:789:ILE:HD12	1:A:789:ILE:N	2.32	0.45
1:A:715:ILE:HG22	1:A:716:LYS:HG2	1.99	0.44
1:A:716:LYS:HB2	1:A:728:LYS:HE2	2.00	0.44
1:A:795:PHE:CE2	1:A:847:THR:HA	2.53	0.43
1:A:783:THR:CG2	1:A:784:SER:H	2.23	0.43
1:A:776:ARG:NH1	1:A:778:LEU:HA	2.34	0.43
1:A:740:ILE:HD12	1:A:1013:ALA:HA	2.01	0.43
1:A:882:ALA:HA	1:A:898:TRP:CD2	2.54	0.43
1:A:936:PRO:HA	1:A:937:PRO:HD3	1.90	0.43
1:A:756:ASN:N	1:A:756:ASN:ND2	2.68	0.41
1:A:740:ILE:HD11	1:A:1013:ALA:HB2	2.02	0.41
1:A:829:GLU:HA	1:A:893:HIS:CE1	2.56	0.41
1:A:998:TYR:HA	1:A:1001:LEU:HB3	2.03	0.41
1:A:773:HIS:CE1	1:A:820:GLN:HG2	2.56	0.41
1:A:774:VAL:O	1:A:774:VAL:HG23	2.19	0.41
1:A:998:TYR:HD2	1:A:1001:LEU:HD23	1.86	0.41
1:A:918:ILE:HA	1:A:919:PRO:HD3	1.92	0.40

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	268/315 (85%)	251 (94%)	13 (5%)	4 (2%)	8 8

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	808	ASN
1	A	985	GLU
1	A	997	PHE
1	A	755	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	247/278 (89%)	236 (96%)	11 (4%)	24 37

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

Mol	Chain	Res	Type
1	A	703	LEU
1	A	714	LYS
1	A	740	ILE
1	A	786	VAL
1	A	808	ASN
1	A	945	MET
1	A	949	LYS
1	A	976	GLN
1	A	986	ARG
1	A	999	ARG
1	A	1014	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (9) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	756	ASN

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Mol	Chain	Res	Type
1	A	773	HIS
1	A	791	GLN
1	A	808	ASN
1	A	849	GLN
1	A	850	HIS
1	A	893	HIS
1	A	976	GLN
1	A	996	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](#)

3 ligands 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	$\# Z > 2$
2	PO4	A	81	-	4,4,4	1.75	1 (25%)	6,6,6	0.45	0
2	PO4	A	82	-	4,4,4	1.70	0	6,6,6	0.46	0
3	POX	A	1	-	35,35,35	1.64	9 (25%)	41,47,47	1.81	9 (21%)

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	POX	A	1	-	-	5/15/15/15	0/4/4/4

All (10) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	1	POX	C2-C1	3.24	1.44	1.39
3	A	1	POX	C5-C6	3.00	1.44	1.38
3	A	1	POX	C4-C3	2.78	1.42	1.37
3	A	1	POX	C5-C4	2.48	1.43	1.38
3	A	1	POX	C2-C3	2.29	1.41	1.37
3	A	1	POX	C6-C1	2.21	1.43	1.38
3	A	1	POX	C14-C9	2.17	1.43	1.39
3	A	1	POX	C11-C12	2.14	1.42	1.39
3	A	1	POX	C17-C16	-2.04	1.40	1.42
2	A	81	PO4	P-O2	-2.04	1.48	1.54

All (9) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	1	POX	C13-C12-N1	-4.77	104.72	106.67
3	A	1	POX	C12-N1-N2	4.56	113.32	111.26
3	A	1	POX	C8-N2-N1	-4.46	103.84	106.06
3	A	1	POX	N3-C16-N5	-3.88	113.69	118.38
3	A	1	POX	C1-C2-C3	2.69	121.09	118.75
3	A	1	POX	C20-O1-N7	2.65	112.76	109.15
3	A	1	POX	N5-C15-N4	-2.39	124.96	128.58
3	A	1	POX	O1-N7-C19	-2.27	107.45	110.83
3	A	1	POX	N6-C18-N4	-2.10	113.71	118.38

There are no chirality outliers.

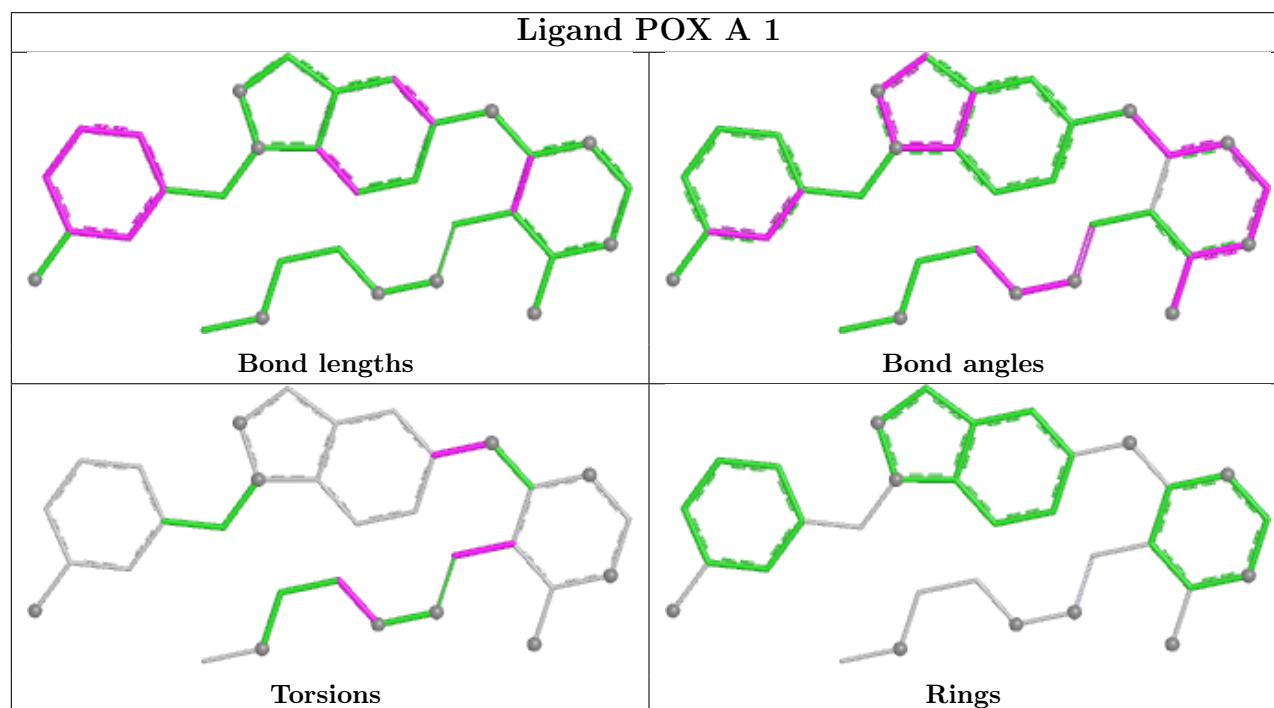
All (5) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	1	POX	C21-C20-O1-N7
3	A	1	POX	C18-C17-C19-N7
3	A	1	POX	C10-C9-N3-C16
3	A	1	POX	C16-C17-C19-N7
3	A	1	POX	C14-C9-N3-C16

There are no ring outliers.

No monomer is involved in short contacts.

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 ⓘ

6.1 Protein, DNA and RNA chains ⓘ

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	280/315 (88%)	0.96	49 (17%) 4 4	23, 42, 88, 102	0

All (49) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	997	PHE	5.9
1	A	755	ALA	5.5
1	A	998	TYR	4.9
1	A	1010	VAL	4.3
1	A	733	PRO	3.8
1	A	864	ALA	3.8
1	A	757	LYS	3.3
1	A	1014	ASP	3.2
1	A	722	ALA	3.2
1	A	849	GLN	3.2
1	A	1002	MET	3.2
1	A	766	MET	3.1
1	A	876	VAL	3.1
1	A	986	ARG	3.1
1	A	740	ILE	3.1
1	A	1000	ALA	3.0
1	A	759	ILE	3.0
1	A	867	LYS	3.0
1	A	807	ASP	3.0
1	A	945	MET	3.0
1	A	761	ASP	2.9
1	A	732	ILE	2.9
1	A	925	SER	2.8
1	A	917	GLY	2.8
1	A	756	ASN	2.8
1	A	782	LEU	2.7
1	A	723	PHE	2.7

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Mol	Chain	Res	Type	RSRZ
1	A	763	ALA	2.6
1	A	865	GLU	2.5
1	A	783	THR	2.5
1	A	924	SER	2.4
1	A	754	LYS	2.4
1	A	1001	LEU	2.4
1	A	985	GLU	2.4
1	A	1013	ALA	2.4
1	A	1012	ASP	2.3
1	A	1015	GLU	2.3
1	A	862	LEU	2.3
1	A	764	TYR	2.2
1	A	738	VAL	2.2
1	A	715	ILE	2.1
1	A	942	ASP	2.1
1	A	996	ASN	2.1
1	A	831	ARG	2.1
1	A	1011	VAL	2.1
1	A	916	ASP	2.0
1	A	721	GLY	2.0
1	A	785	THR	2.0
1	A	713	LYS	2.0

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 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.

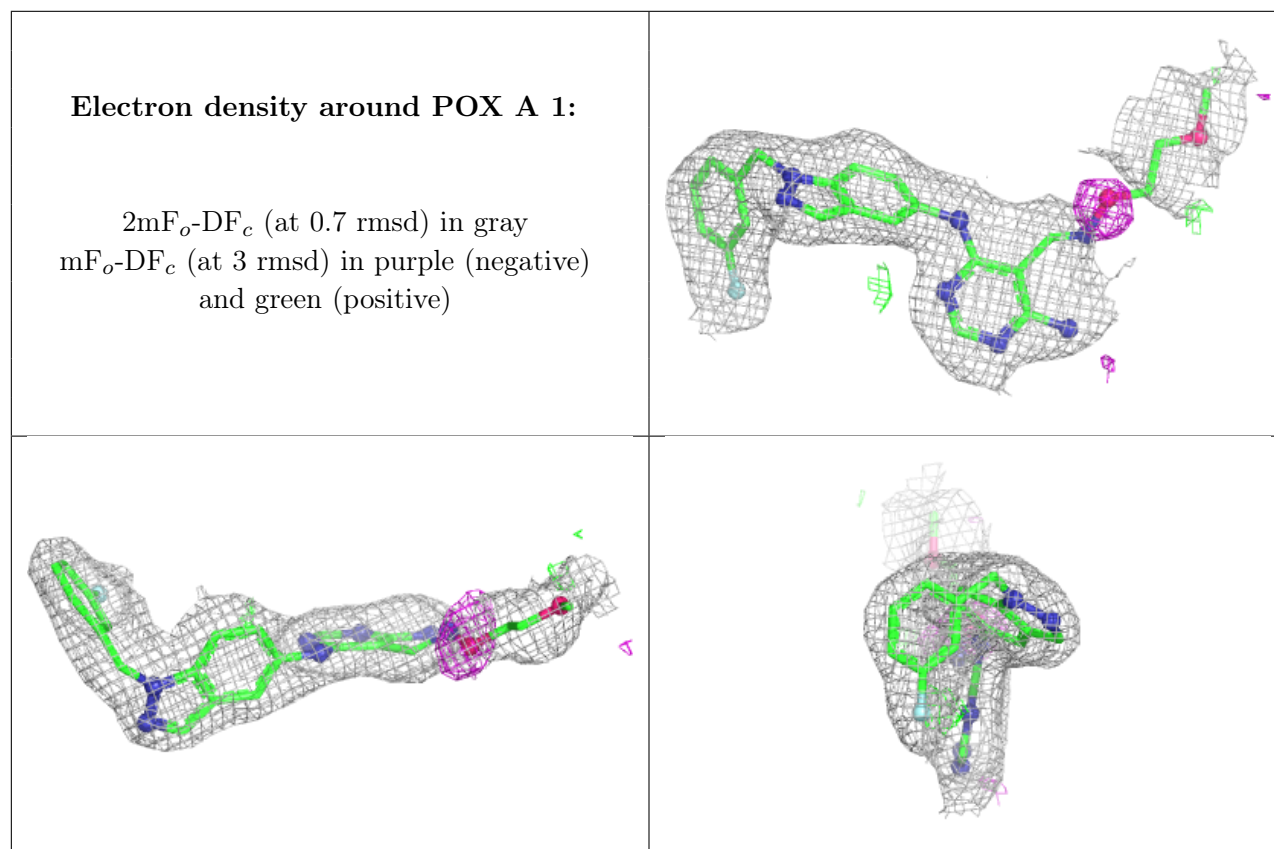
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
2	PO4	A	82	5/5	0.90	0.17	65,65,65,66	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
3	POX	A	1	32/32	0.91	0.10	25,30,67,70	0
2	PO4	A	81	5/5	0.94	0.09	60,60,63,64	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.