

wwPDB X-ray Structure Validation Summary Report (i)

Sep 2, 2023 – 05:55 PM EDT

PDB ID : 3RCD

Title: HER2 Kinase Domain Complexed with TAK-285

Authors: Aertgeerts, K.; Skene, R.; Sogabe, S.

Deposited on : 2011-03-30

Resolution : 3.21 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 types of validation reports are described at http://www.wwpdb.org/validation/2017/FAQs#types.

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

MolProbity: 4.02b-467

Mogul : 1.8.5 (274361), CSD as541be (2020)

Xtriage (Phenix) : 1.13

EDS : 2.35

buster-report : 1.1.7 (2018)

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

 $Refmac \quad : \quad 5.8.0158$

CCP4 : 7.0.044 (Gargrove)

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

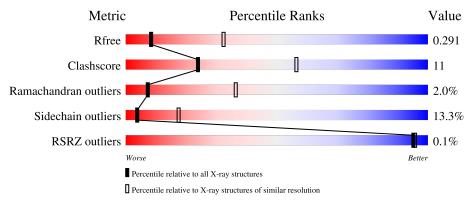
Validation Pipeline (wwPDB-VP) : 2.35

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 3.21 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
Metric	$(\# \mathrm{Entries})$	$(\# ext{Entries}, ext{ resolution range}(\mathring{A}))$
R_{free}	130704	1335 (3.24-3.20)
Clashscore	141614	1460 (3.24-3.20)
Ramachandran outliers	138981	1437 (3.24-3.20)
Sidechain outliers	138945	1436 (3.24-3.20)
RSRZ outliers	127900	1291 (3.24-3.20)

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 <=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	338	51%	26%	5% •	17%		
1	В	338	59%	18%	•	20%		
1	С	338	50%	28%	5% •	17%		
1	D	338	57%	20%	· ·	20%		



2 Entry composition (i)

There are 3 unique types of molecules in this entry. The entry contains 8970 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 Receptor tyrosine-protein kinase erbB-2.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace	
1	Λ	281	Total	С	N	О	S	0		0
1	A	201	2254	1444	391	403	16	U	0	
1	В	271	Total	С	N	О	S	0	0	0
1	Ъ	211	2176	1398	381	381	16	U	0	
1	С	281	Total	С	N	О	S	0	0	0
1		201	2254	1444	391	403	16	U	0	
1	D	271	Total	С	N	О	S	0	0	0
1	ע	211	2176	1398	381	381	16	U		

There are 88 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	702	MET	-	expression tag	UNP P04626
A	703	SER	-	expression tag	UNP P04626
A	704	GLY	-	expression tag	UNP P04626
A	705	ALA	-	expression tag	UNP P04626
A	706	ALA	-	expression tag	UNP P04626
A	707	PRO	-	expression tag	UNP P04626
A	708	ASN	-	expression tag	UNP P04626
A	709	GLN	-	expression tag	UNP P04626
A	710	ALA	-	expression tag	UNP P04626
A	711	LEU	-	expression tag	UNP P04626
A	712	LEU	-	expression tag	UNP P04626
A	1029	GLY	-	expression tag	UNP P04626
A	1030	ALA	-	expression tag	UNP P04626
A	1031	ALA	-	expression tag	UNP P04626
A	1032	ALA	-	expression tag	UNP P04626
A	1033	SER	-	expression tag	UNP P04626
A	1034	HIS	-	expression tag	UNP P04626
A	1035	HIS	-	expression tag	UNP P04626
A	1036	HIS	-	expression tag	UNP P04626
A	1037	HIS	-	expression tag	UNP P04626
A	1038	HIS	-	expression tag	UNP P04626



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Chain	Residue	Modelled	Actual	Comment	Reference
A	1039	HIS	-	expression tag	UNP P04626
В	702	MET	-	expression tag	UNP P04626
В	703	SER	-	expression tag	UNP P04626
В	704	GLY	-	expression tag	UNP P04626
В	705	ALA	-	expression tag	UNP P04626
В	706	ALA	-	expression tag	UNP P04626
В	707	PRO	-	expression tag	UNP P04626
В	708	ASN	-	expression tag	UNP P04626
В	709	GLN	_	expression tag	UNP P04626
В	710	ALA	-	expression tag	UNP P04626
В	711	LEU	-	expression tag	UNP P04626
В	712	LEU	-	expression tag	UNP P04626
В	1029	GLY	-	expression tag	UNP P04626
В	1030	ALA	_	expression tag	UNP P04626
В	1031	ALA	-	expression tag	UNP P04626
В	1032	ALA	-	expression tag	UNP P04626
В	1033	SER	-	expression tag	UNP P04626
В	1034	HIS	-	expression tag	UNP P04626
В	1035	HIS	_	expression tag	UNP P04626
В	1036	HIS	-	expression tag	UNP P04626
В	1037	HIS	-	expression tag	UNP P04626
В	1038	HIS	-	expression tag	UNP P04626
В	1039	HIS	-	expression tag	UNP P04626
С	702	MET	-	expression tag	UNP P04626
С	703	SER	-	expression tag	UNP P04626
С	704	GLY	-	expression tag	UNP P04626
С	705	ALA	-	expression tag	UNP P04626
С	706	ALA	-	expression tag	UNP P04626
С	707	PRO	-	expression tag	UNP P04626
С	708	ASN	-	expression tag	UNP P04626
С	709	GLN	-	expression tag	UNP P04626
С	710	ALA	-	expression tag	UNP P04626
С	711	LEU	-	expression tag	UNP P04626
С	712	LEU	-	expression tag	UNP P04626
С	1029	GLY	-	expression tag	UNP P04626
С	1030	ALA	-	expression tag	UNP P04626
С	1031	ALA	-	expression tag	UNP P04626
С	1032	ALA	-	expression tag	UNP P04626
С	1033	SER	-	expression tag	UNP P04626
С	1034	HIS	-	expression tag	UNP P04626
С	1035	HIS	-	expression tag	UNP P04626
С	1036	HIS	-	expression tag	UNP P04626

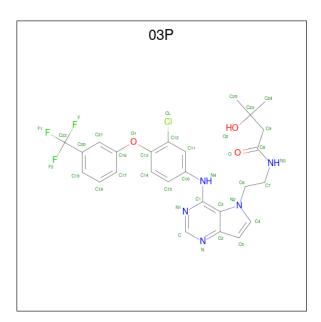


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Chain	Residue	Modelled	Actual	Comment	Reference
С	1037	HIS	-	expression tag	UNP P04626
С	1038	HIS	-	expression tag	UNP P04626
С	1039	HIS	-	expression tag	UNP P04626
D	702	MET	=	expression tag	UNP P04626
D	703	SER	-	expression tag	UNP P04626
D	704	GLY	-	expression tag	UNP P04626
D	705	ALA	-	expression tag	UNP P04626
D	706	ALA	-	expression tag	UNP P04626
D	707	PRO	-	expression tag	UNP P04626
D	708	ASN	-	expression tag	UNP P04626
D	709	GLN	-	expression tag	UNP P04626
D	710	ALA	-	expression tag	UNP P04626
D	711	LEU	-	expression tag	UNP P04626
D	712	LEU	-	expression tag	UNP P04626
D	1029	GLY	-	expression tag	UNP P04626
D	1030	ALA	-	expression tag	UNP P04626
D	1031	ALA	-	expression tag	UNP P04626
D	1032	ALA	-	expression tag	UNP P04626
D	1033	SER	-	expression tag	UNP P04626
D	1034	HIS	-	expression tag	UNP P04626
D	1035	HIS	=	expression tag	UNP P04626
D	1036	HIS	-	expression tag	UNP P04626
D	1037	HIS	=	expression tag	UNP P04626
D	1038	HIS	-	expression tag	UNP P04626
D	1039	HIS	=	expression tag	UNP P04626

• Molecule 2 is N-{2-[4-({3-chloro-4-[3-(trifluoromethyl)phenoxy]phenyl}amino)-5H-pyrrolo[3, 2-d]pyrimidin-5-yl]ethyl}-3-hydroxy-3-methylbutanamide (three-letter code: 03P) (formula: $C_{26}H_{25}ClF_3N_5O_3$).





Mol	Chain	Residues	Atoms				ZeroOcc	AltConf		
9	٨	1	Total	С	Cl	F	N	О	0	0
	A	1	38	26	1	3	5	3	0	
9	С	1	Total	С	Cl	F	N	О	0	0
		1	38	26	1	3	5	3		U

• Molecule 3 is water.

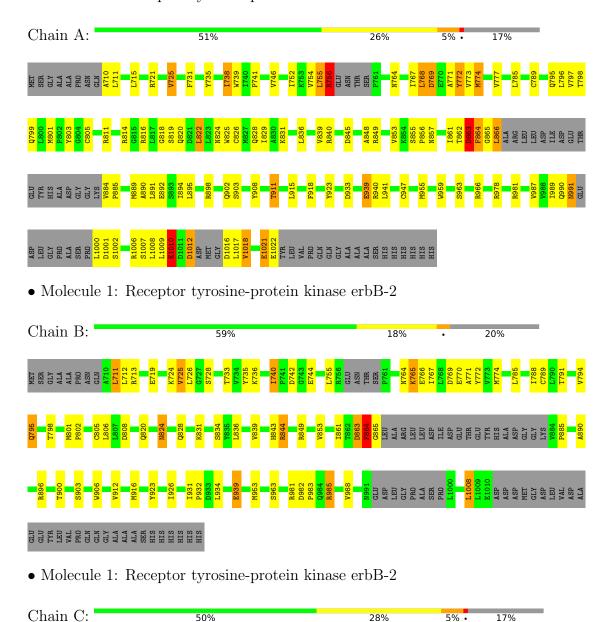
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	10	Total O 10 10	0	0
3	В	9	Total O 9 9	0	0
3	С	5	Total O 5 5	0	0
3	D	10	Total O 10 10	0	0



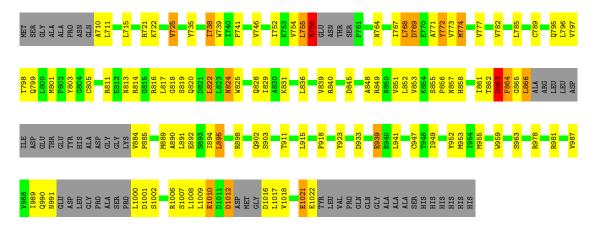
3 Residue-property plots (i)

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.

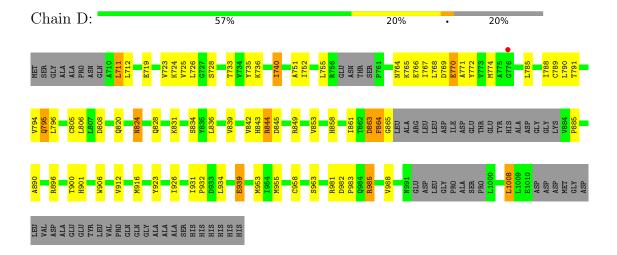
• Molecule 1: Receptor tyrosine-protein kinase erbB-2







• Molecule 1: Receptor tyrosine-protein kinase erbB-2





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1	Depositor
Cell constants	50.54Å 64.94Å 92.36Å	Donositon
a, b, c, α , β , γ	90.42° 89.72° 90.35°	Depositor
Resolution (Å)	40.00 - 3.21	Depositor
Resolution (A)	46.18 - 3.21	EDS
% Data completeness	76.0 (40.00-3.21)	Depositor
(in resolution range)	75.9 (46.18-3.21)	EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	1.93 (at 3.19Å)	Xtriage
Refinement program	REFMAC	Depositor
D D.	0.224 , 0.294	Depositor
R, R_{free}	0.220 , 0.291	DCC
R_{free} test set	749 reflections (5.15%)	wwPDB-VP
Wilson B-factor (Å ²)	52.2	Xtriage
Anisotropy	0.519	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.33, 25.0	EDS
L-test for twinning ²	$< L > = 0.49, < L^2> = 0.32$	Xtriage
	0.058 for h,-k,-l	
Estimated twinning fraction	0.348 for -h,k,-l	Xtriage
	0.056 for -h,-k,l	
F_o, F_c correlation	0.90	EDS
Total number of atoms	8970	wwPDB-VP
Average B, all atoms (Å ²)	51.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 5.42% 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: 03P

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	s Bond angles		
MIOI	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	A	0.45	0/2297	0.71	4/3104~(0.1%)	
1	В	0.41	0/2220	0.58	0/3000	
1	С	0.44	0/2297	0.74	6/3104 (0.2%)	
1	D	0.41	0/2220	0.58	0/3000	
All	All	0.43	0/9034	0.66	10/12208 (0.1%)	

There are no bond length outliers.

The worst 5 of 10 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
1	С	756	ARG	NE-CZ-NH1	-11.85	114.38	120.30
1	С	756	ARG	NE-CZ-NH2	10.29	125.44	120.30
1	A	756	ARG	NE-CZ-NH1	9.81	125.20	120.30
1	С	1006	ARG	NE-CZ-NH1	-7.88	116.36	120.30
1	A	756	ARG	NE-CZ-NH2	-7.71	116.45	120.30

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	2254	0	2306	66	0
1	В	2176	0	2243	35	0



Continued	trom	mmoninonic	maaa
COHABABACA		DIEUIUU	DUIUE
0 0 1000100000			

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	С	2254	0	2306	67	0
1	D	2176	0	2243	36	0
2	A	38	0	25	2	0
2	С	38	0	25	3	0
3	A	10	0	0	1	0
3	В	9	0	0	1	0
3	С	5	0	0	0	0
3	D	10	0	0	1	0
All	All	8970	0	9148	200	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 11.

The worst 5 of 200 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	$\begin{array}{c} {\rm Interatomic} \\ {\rm distance} \ ({\rm \AA}) \end{array}$	Clash overlap (Å)
1:A:989:ILE:HG22	1:A:990:GLN:H	1.28	0.97
1:C:989:ILE:HG22	1:C:990:GLN:H	1.31	0.94
2:A:9001:03P:H6	2:A:9001:03P:HN4	1.45	0.80
1:A:940:ARG:NH1	3:A:2:HOH:O	2.14	0.80
1:D:858:HIS:HB2	3:D:24:HOH:O	1.84	0.77

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	271/338 (80%)	245 (90%)	19 (7%)	7 (3%)	5 30
1	В	$263/338 \ (78\%)$	236 (90%)	24 (9%)	3 (1%)	14 50
1	С	271/338 (80%)	244 (90%)	19 (7%)	8 (3%)	4 27



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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	D	263/338 (78%)	235 (89%)	25 (10%)	3 (1%)	14 50
All	All	1068/1352 (79%)	960 (90%)	87 (8%)	21 (2%)	7 36

5 of 21 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	1018	VAL
1	В	864	PHE
1	С	1018	VAL
1	D	864	PHE
1	A	863	ASP

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	250/293~(85%)	210 (84%)	40 (16%)	2 11		
1	В	$241/293 \ (82\%)$	215 (89%)	26 (11%)	6 26		
1	С	250/293~(85%)	211 (84%)	39 (16%)	2 11		
1	D	241/293~(82%)	215 (89%)	26 (11%)	6 26		
All	All	982/1172 (84%)	851 (87%)	131 (13%)	4 17		

5 of 131 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	D	795	GLN
1	D	834	SER
1	D	1008	LEU
1	В	770	GLU
1	В	769	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 15 such sidechains are listed below:



Mol	Chain	Res	Type
1	С	745	ASN
1	D	901	HIS
1	С	820	GLN
1	D	902	GLN
1	D	809	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 monosaccharides in this entry.

5.6 Ligand geometry (i)

2 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		Bo	ond leng	ths	В	ond ang	les
MOI	туре	Chain	nes	Lilik	Counts	RMSZ	# Z > 2	Counts	RMSZ	$\mid \# Z > 2$
2	03P	A	9001	-	38,41,41	0.96	2 (5%)	50,60,60	1.31	4 (8%)
2	03P	С	9001	-	38,41,41	0.92	3 (7%)	50,60,60	1.43	4 (8%)

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
2	03P	A	9001	-	-	3/25/25/25	0/4/4/4
2	03P	С	9001	-	-	6/25/25/25	0/4/4/4

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(A)	$\operatorname{Ideal}(ext{\AA})$
2	С	9001	03P	C1-N4	2.75	1.40	1.36
2	A	9001	03P	C1-N4	2.68	1.40	1.36
2	A	9001	03P	C8-N3	2.28	1.38	1.33
2	С	9001	03P	C8-N3	2.04	1.38	1.33
2	С	9001	03P	C2-N	-2.02	1.33	1.37

The worst 5 of 8 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
2	С	9001	03P	C9-C8-N3	-4.90	110.55	115.57
2	A	9001	03P	C13-C12-CL	4.46	124.67	119.43
2	С	9001	03P	C13-C12-CL	4.44	124.65	119.43
2	A	9001	03P	N4-C1-N1	3.56	123.49	118.72
2	С	9001	03P	C7-C6-N2	3.44	116.49	110.90

There are no chirality outliers.

5 of 9 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	С	9001	03P	O-C8-N3-C7
2	С	9001	03P	C9-C8-N3-C7
2	A	9001	03P	O-C8-C9-C23
2	С	9001	03P	C15-C10-N4-C1
2	A	9001	03P	C24-C23-C9-C8

There are no ring outliers.

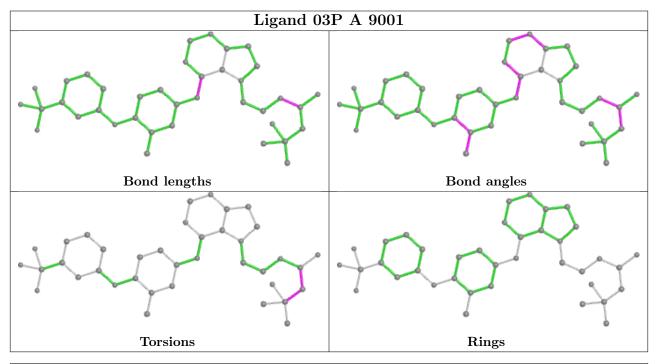
2 monomers are involved in 5 short contacts:

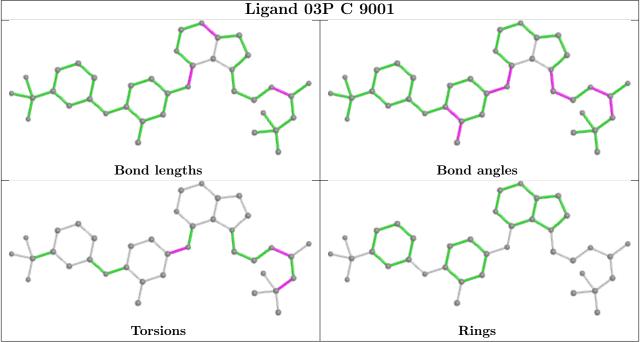
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	9001	03P	2	0
2	С	9001	03P	3	0

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 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>	$\#\mathrm{RSRZ}{>}2$		$\mathbf{OWAB}(\mathbf{\mathring{A}}^2)$	Q<0.9
1	A	281/338 (83%)	-0.45	0 100	100	28, 42, 77, 97	3 (1%)
1	В	271/338 (80%)	-0.26	0 100	100	35, 56, 86, 107	5 (1%)
1	С	281/338 (83%)	-0.43	0 100	100	28, 43, 81, 99	5 (1%)
1	D	271/338 (80%)	-0.23	1 (0%) 9	92 89	36, 55, 84, 108	5 (1%)
All	All	1104/1352 (81%)	-0.34	1 (0%) 9	96	28, 49, 84, 108	18 (1%)

All (1) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ	
1	D	776	GLY	2.2	

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 monosaccharides 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.

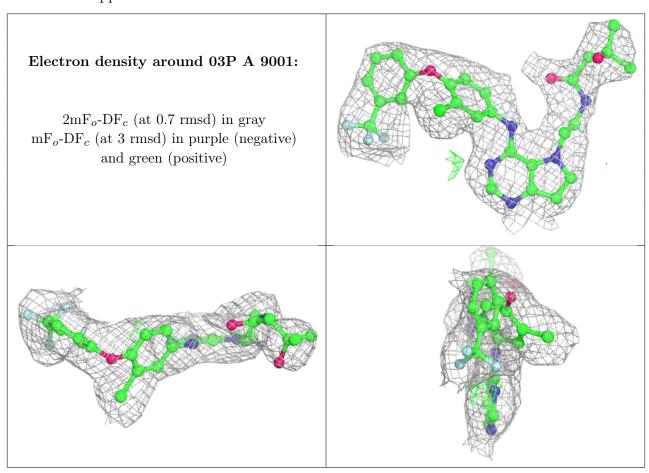
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q < 0.9
2	03P	A	9001	38/38	0.96	0.19	31,34,42,43	0



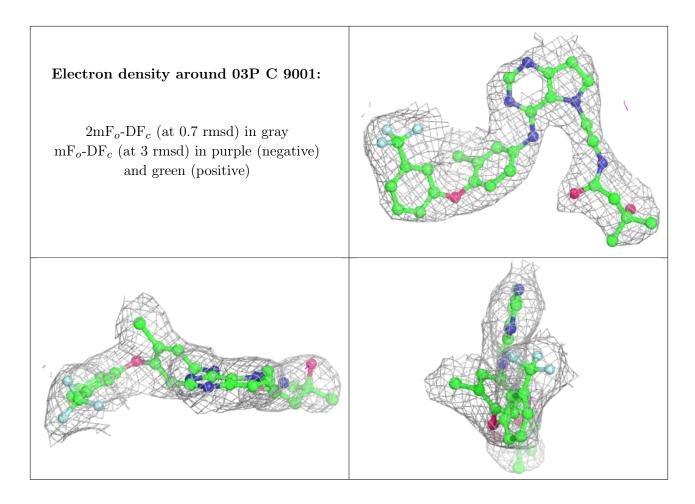
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	${f B-factors}({f \AA}^2)$	Q < 0.9
2	03P	С	9001	38/38	0.96	0.17	45,46,47,48	0

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.

