

# wwPDB X-ray Structure Validation Summary Report (i)

Sep 19, 2023 – 05:50 AM EDT

PDB ID	:	5BNE
Title	:	Bianthranilate-like inhibitor with 6 atom "line" and phosphonate "hook" fish-
		ing for hydrogen bond donors in Mycobacterium tuberculosis anthranilate ph osphoribosyltransferase (AnPRT; trpD)
Authors	:	Evans, G.L.; Baker, E.N.; Lott, J.S.; TB Structural Genomics Consortium
		(TBSGC)
Deposited on	:	2015-05-26
Resolution	:	2.15 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 : 2.35.1	
buster-report : $1.1.7$ (2018)	
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2	019)
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) : 2.35.1	

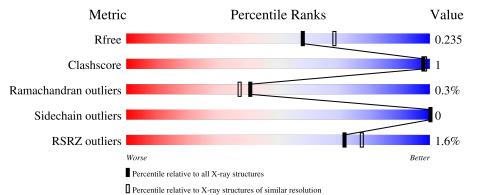


# 1 Overall quality at a glance (i)

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

The reported resolution of this entry is 2.15 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	$\begin{array}{c} \textbf{Whole archive} \\ (\#\textbf{Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
R <sub>free</sub>	130704	1479 (2.16-2.16)
Clashscore	141614	1585 (2.16-2.16)
Ramachandran outliers	138981	1560 (2.16-2.16)
Sidechain outliers	138945	1559 (2.16-2.16)
RSRZ outliers	127900	1456 (2.16-2.16)

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	А	379	% • 86%		12%
1	В	379	% • 86%	•	13%
1	С	379	2% 86%	•	12%
1	D	379	2% 85%	•	14%



#### 5BNE

# 2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 9740 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.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	Λ	335	Total	С	Ν	Ο	S	0	0	0
	А	000	2331	1469	418	435	9	0	0	0
1	В	331	Total	С	Ν	0	S	0	0	0
	D	331	2331	1470	428	424	9	0	0	U
1	С	333	Total	С	Ν	0	S	0	0	0
	U	ეეე	2340	1476	425	430	9	0	0	0
1	1 D	207	Total	С	Ν	Ο	S	0	0	0
		327	2278	1437	411	421	9	0	0	U

• Molecule 1 is a protein called Anthranilate phosphoribosyltransferase.

There are 40 discrepancies between the modelled and reference sequences:

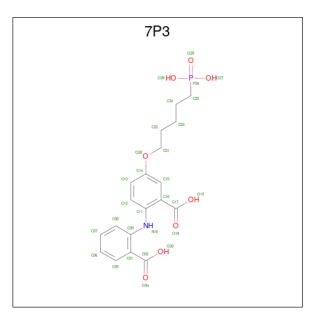
Chain	Residue	Modelled	Actual	Comment	Reference
А	0	MET	-	initiating methionine	UNP P9WFX5
А	1	VAL	-	expression tag	UNP P9WFX5
А	371	LEU	-	expression tag	UNP P9WFX5
А	372	GLU	-	expression tag	UNP P9WFX5
А	373	HIS	-	expression tag	UNP P9WFX5
А	374	HIS	-	expression tag	UNP P9WFX5
А	375	HIS	-	expression tag	UNP P9WFX5
А	376	HIS	-	expression tag	UNP P9WFX5
А	377	HIS	-	expression tag	UNP P9WFX5
А	378	HIS	-	expression tag	UNP P9WFX5
В	0	MET	-	initiating methionine	UNP P9WFX5
В	1	VAL	-	expression tag	UNP P9WFX5
В	371	LEU	-	expression tag	UNP P9WFX5
В	372	GLU	-	expression tag	UNP P9WFX5
В	373	HIS	-	expression tag	UNP P9WFX5
В	374	HIS	-	expression tag	UNP P9WFX5
В	375	HIS	-	expression tag	UNP P9WFX5
В	376	HIS	-	expression tag	UNP P9WFX5
В	377	HIS	-	expression tag	UNP P9WFX5
В	378	HIS	-	expression tag	UNP P9WFX5
С	0	MET	-	initiating methionine	UNP P9WFX5



Chain	Residue	Modelled	Actual	Comment	Reference
С	1	VAL	-	expression tag	UNP P9WFX5
С	371	LEU	-	expression tag	UNP P9WFX5
С	372	GLU	-	expression tag	UNP P9WFX5
С	373	HIS	-	expression tag	UNP P9WFX5
С	374	HIS	-	expression tag	UNP P9WFX5
С	375	HIS	-	expression tag	UNP P9WFX5
С	376	HIS	-	expression tag	UNP P9WFX5
С	377	HIS	-	expression tag	UNP P9WFX5
С	378	HIS	-	expression tag	UNP P9WFX5
D	0	MET	-	initiating methionine	UNP P9WFX5
D	1	VAL	-	expression tag	UNP P9WFX5
D	371	LEU	-	expression tag	UNP P9WFX5
D	372	GLU	-	expression tag	UNP P9WFX5
D	373	HIS	-	expression tag	UNP P9WFX5
D	374	HIS	-	expression tag	UNP P9WFX5
D	375	HIS	-	expression tag	UNP P9WFX5
D	376	HIS	-	expression tag	UNP P9WFX5
D	377	HIS	-	expression tag	UNP P9WFX5
D	378	HIS	-	expression tag	UNP P9WFX5

Continued from previous page...

• Molecule 2 is 2-[(2-carboxyphenyl)amino]-5-[(5-phosphonopentyl)oxy]benzoic acid (three-letter code: 7P3) (formula: C<sub>19</sub>H<sub>22</sub>NO<sub>8</sub>P).

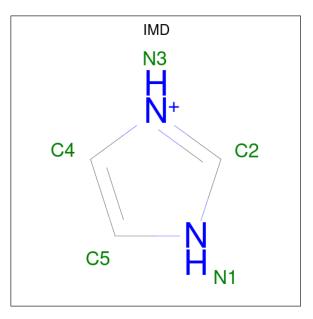


Mol	Chain	Residues		Ato	$\mathbf{pms}$			ZeroOcc	AltConf
2	Δ	1	Total	С	Ν	0	Р	0	0
2	Л	1	29	19	1	8	1	0	0



Contr	nueu jion	i previous pa	ye						
Mol	Chain	Residues		Ato	$\mathbf{pms}$			ZeroOcc	AltConf
9	р	1	Total	С	Ν	0	Р	0	0
	D	1	29	19	1	8	1	0	0
9	Л	1	Total	С	Ν	0	Р	0	0
	D	1	29	19	1	8	1	0	0

Continued from previous page



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	А	1	$\begin{array}{ccc} \text{Total}  \text{C}  \text{N} \\ 5  3  2 \end{array}$	0	0
3	В	1	$\begin{array}{ccc} \text{Total}  \text{C}  \text{N} \\ 5  3  2 \end{array}$	0	0
3	В	1	$\begin{array}{ccc} \text{Total}  \text{C}  \text{N} \\ 5  3  2 \end{array}$	0	0
3	С	1	$\begin{array}{ccc} \text{Total}  \text{C}  \text{N} \\ 5  3  2 \end{array}$	0	0

• Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	А	119	Total O 119 119	0	0
4	В	74	Total O 74 74	0	0
4	С	85	Total         O           85         85	0	0



Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	D	75	Total O 75 75	0	0

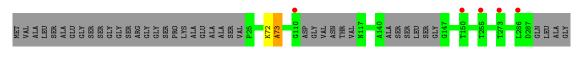


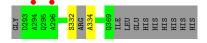
# 3 Residue-property plots (i)

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.

- Chain A: 86% 12% MET VAL LEU VAL LEU SER GLY SER SER SER SER SER SER SER SER ALA ALA ALA SER TLE HIS HIS HIS HIS HIS • Molecule 1: Anthranilate phosphoribosyltransferase Chain B: 86% 13% MET VAL LEU VAL LEU ALA ALA SER CLY GLY GLY SER CLY SER CLY SER ALA ALA ALA ALA ALA LEU GLU HIS HIS HIS HIS HIS HIS HIS • Molecule 1: Anthranilate phosphoribosyltransferase Chain C: 86% 12% MET VAL LEU VAL LEU ALA ALA ALA SER RALA SER RALA SER ALA SER SER ALA ALA GLU HIS HIS HIS HIS HIS HIS HIS • Molecule 1: Anthranilate phosphoribosyltransferase Chain D: 85% 14%
- Molecule 1: Anthranilate phosphoribosyltransferase









## 4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants	77.30Å 78.40Å 117.20Å	Denesiten
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$90.00^{\circ}$ $90.70^{\circ}$ $90.00^{\circ}$	Depositor
Resolution (Å)	46.97 - 2.15	Depositor
Resolution (A)	$46.97 \ - \ 2.15$	EDS
% Data completeness	98.3 (46.97-2.15)	Depositor
(in resolution range)	$98.3 \ (46.97 - 2.15)$	EDS
R <sub>merge</sub>	0.11	Depositor
R <sub>sym</sub>	(Not available)	Depositor
$< I/\sigma(I) > 1$	$1.69 (at 2.16 \text{\AA})$	Xtriage
Refinement program	PHENIX 1.9_1692, REFMAC 5.8.0073	Depositor
D D	0.207 , $0.235$	Depositor
$R, R_{free}$	0.209 , $0.235$	DCC
$R_{free}$ test set	3613 reflections $(4.81%)$	wwPDB-VP
Wilson B-factor $(Å^2)$	26.3	Xtriage
Anisotropy	0.389	Xtriage
Bulk solvent $k_{sol}(e/A^3)$ , $B_{sol}(A^2)$	0.34 , $42.6$	EDS
L-test for twinning <sup>2</sup>	$< L >=0.48, < L^2>=0.31$	Xtriage
	0.014 for -k,-h,-l	
Estimated twinning fraction	0.016 for k,h,-l	Xtriage
	0.035 for h,-k,-l	
$F_o, F_c$ correlation	0.93	EDS
Total number of atoms	9740	wwPDB-VP
Average B, all atoms $(Å^2)$	29.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 5.55% of the height of the origin peak. No significant pseudotranslation is detected.

<sup>&</sup>lt;sup>2</sup>Theoretical 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.



<sup>&</sup>lt;sup>1</sup>Intensities 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: 7P3, IMD

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		
	Unam	RMSZ	# Z  > 5	RMSZ	# Z  > 5	
1	А	0.23	0/2376	0.40	0/3251	
1	В	0.23	0/2376	0.39	0/3248	
1	С	0.23	0/2386	0.39	0/3264	
1	D	0.23	0/2322	0.40	0/3177	
All	All	0.23	0/9460	0.40	0/12940	

There are no bond length outliers.

There are no bond angle outliers.

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	А	2331	0	2238	5	0
1	В	2331	0	2274	2	0
1	С	2340	0	2279	3	0
1	D	2278	0	2188	2	0
2	А	29	0	0	1	0
2	В	29	0	0	0	0
2	D	29	0	0	0	0
3	А	5	0	5	0	0
3	В	10	0	10	0	0



Mol	Chain	Non-H	H(model)	del) H(added) Cla		Symm-Clashes
3	С	5	0	5	0	0
4	А	119	0	0	0	0
4	В	74	0	0	0	0
4	С	85	0	0	0	0
4	D	75	0	0	0	0
All	All	9740	0	8999	12	0

Continued from previous page...

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 1.

The worst 5 of 12 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:B:216:ALA:HB2	1:B:330:LEU:HD21	1.76	0.67	
1:D:332:SER:O	1:D:334:ALA:N	2.31	0.62	
1:A:257:THR:OG1	1:A:258:THR:N	2.40	0.55	
1:C:159:ASP:OD1	1:C:181:ARG:NH1	2.43	0.50	
1:B:240:SER:HB3	1:B:330:LEU:HD22	1.96	0.48	

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	Perce	ntiles
1	А	327/379~(86%)	322~(98%)	4 (1%)	1 (0%)	41	37
1	В	323/379~(85%)	317~(98%)	5(2%)	1 (0%)	41	37
1	$\mathbf{C}$	327/379~(86%)	318~(97%)	8 (2%)	1 (0%)	41	37
1	D	317/379~(84%)	312 (98%)	4 (1%)	1 (0%)	41	37
All	All	1294/1516~(85%)	1269 (98%)	21 (2%)	4 (0%)	41	37



All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	D	73	ALA
1	С	73	ALA
1	А	73	ALA
1	В	73	ALA

#### 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	А	211/266~(79%)	211 (100%)	0	100 100		
1	В	212/266~(80%)	212 (100%)	0	100 100		
1	С	214/266~(80%)	214 (100%)	0	100 100		
1	D	205/266~(77%)	205~(100%)	0	100 100		
All	All	842/1064~(79%)	842 (100%)	0	100 100		

There are no protein residues with a non-rotameric sidechain to report.

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

#### 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)

7 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	Iol Type Chain		Res	Link	Bond lengths			Bond angles			
10101	туре	Unam	ries	nes	LIIIK	Counts	RMSZ	# Z >2	Counts	RMSZ	# Z >2
3	IMD	В	402	-	$3,\!5,\!5$	0.43	0	$4,\!5,\!5$	0.58	0	
3	IMD	В	401	-	$3,\!5,\!5$	0.41	0	$4,\!5,\!5$	0.59	0	
3	IMD	А	401	-	$3,\!5,\!5$	0.43	0	$4,\!5,\!5$	0.57	0	
3	IMD	С	400	-	$3,\!5,\!5$	0.41	0	4,5,5	0.58	0	
2	7P3	А	400	-	30,30,30	1.98	5 (16%)	41,41,41	2.26	6 (14%)	
2	7P3	В	400	-	30,30,30	1.96	4 (13%)	41,41,41	2.23	5 (12%)	
2	7P3	D	400	-	30,30,30	1.93	5 (16%)	41,41,41	2.28	6 (14%)	

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	IMD	В	402	-	-	-	0/1/1/1
3	IMD	В	401	-	-	-	0/1/1/1
3	IMD	А	401	-	-	-	0/1/1/1
3	IMD	С	400	-	-	-	0/1/1/1
2	7P3	А	400	-	-	3/22/22/22	0/2/2/2
2	7P3	В	400	-	-	6/22/22/22	0/2/2/2
2	7P3	D	400	-	-	8/22/22/22	0/2/2/2

The worst 5 of 14 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(A)	Ideal(Å)
2	В	400	7P3	C16-C17	-5.51	1.37	1.49
2	D	400	7P3	C16-C17	-5.46	1.38	1.49
2	А	400	7P3	C16-C17	-5.39	1.38	1.49
2	А	400	7P3	P26-C25	5.34	1.84	1.78
2	В	400	7P3	P26-C25	4.92	1.83	1.78



Mol	Chain	Res	Type	Atoms	Z	$Observed(^{o})$	$Ideal(^{o})$
2	D	400	7P3	O19-C17-O18	-7.23	107.31	123.35
2	В	400	7P3	O19-C17-O18	-7.02	107.78	123.35
2	А	400	7P3	O19-C17-O18	-6.99	107.83	123.35
2	В	400	7P3	O03-C02-O04	-6.89	108.05	123.35
2	А	400	7P3	O03-C02-O04	-6.79	108.29	123.35

The worst 5 of 17 bond angle outliers are listed below:

There are no chirality outliers.

5 of 17 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	В	400	7P3	C23-C24-C25-P26
2	А	400	7P3	C15-C14-O20-C21
2	В	400	7P3	C22-C23-C24-C25
2	D	400	7P3	C21-C22-C23-C24
2	А	400	7P3	C13-C14-O20-C21

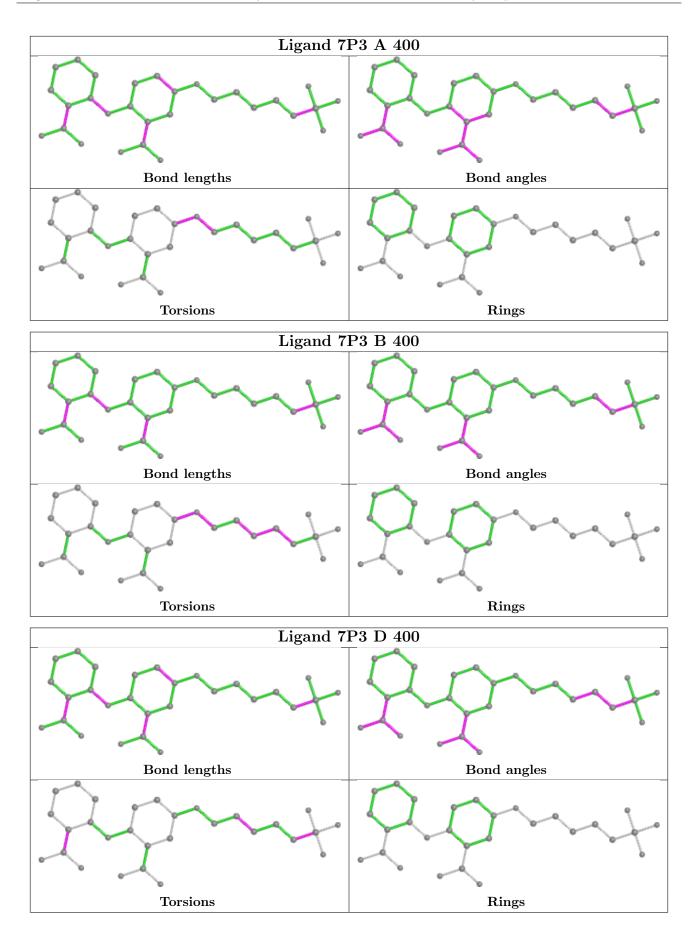
There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	А	400	7P3	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	$\langle RSRZ \rangle$	#RSRZ>2	$OWAB(Å^2)$	Q<0.9
1	А	335/379~(88%)	-0.09	3 (0%) 84 88	16, 25, 42, 61	0
1	В	331/379~(87%)	-0.02	4 (1%) 79 83	17, 27, 48, 60	0
1	С	333/379~(87%)	0.01	7 (2%) 63 71	18, 28, 45, 53	0
1	D	327/379~(86%)	0.08	7 (2%) 63 71	17, 27, 51, 72	0
All	All	1326/1516~(87%)	-0.01	21 (1%) 72 77	16, 27, 46, 72	0

The worst 5 of 21 RSRZ outliers are listed below:

Mol	Chain	$\mathbf{Res}$	Type	RSRZ
1	А	294	ALA	6.1
1	D	294	ALA	4.0
1	А	147	GLY	3.7
1	В	247	ASP	3.4
1	В	294	ALA	2.9

### 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.

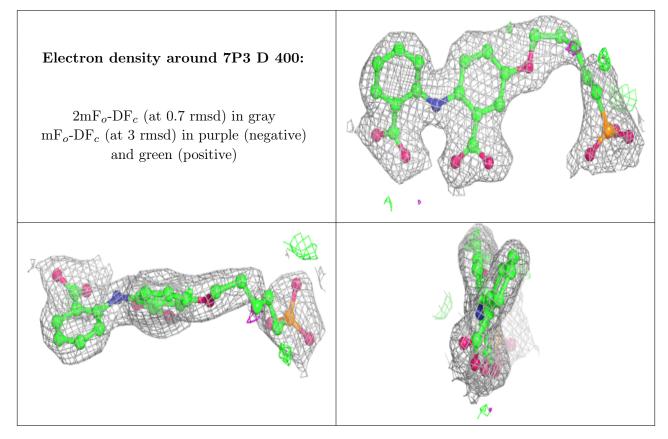
### 6.4 Ligands (i)

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.

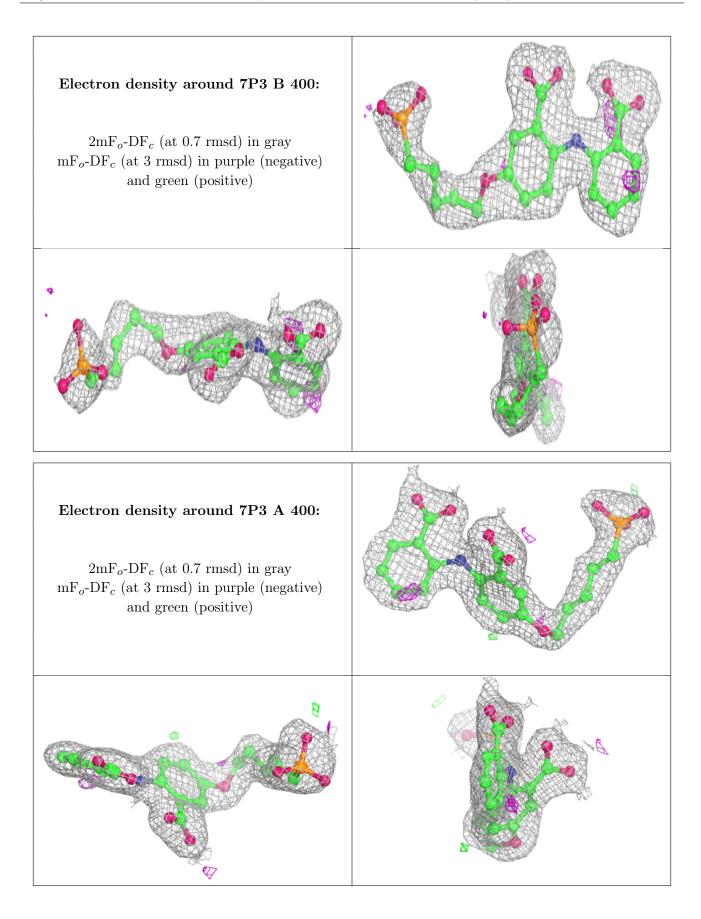


Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q < 0.9
3	IMD	В	402	5/5	0.90	0.20	$25,\!28,\!28,\!30$	5
3	IMD	С	400	5/5	0.91	0.13	23,23,29,29	5
2	7P3	D	400	29/29	0.92	0.14	20,25,60,62	0
2	7P3	В	400	29/29	0.93	0.14	17,24,71,75	5
2	7P3	А	400	29/29	0.94	0.12	21,25,44,61	0
3	IMD	В	401	5/5	0.96	0.13	19,21,26,27	0
3	IMD	А	401	5/5	0.97	0.10	24,28,30,31	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.

