

Full wwPDB X-ray Structure Validation Report (i)

Feb 17, 2024 – 11:45 AM EST

PDB ID : 3SH2

Title : Staphylococcus aureus Dihydrofolate Reductase complexed with NADPH and

6-ethyl-5-(3-(4-methoxybiphenyl-3-yl)prop-1-ynyl)pyrimidine-2,4-diamine

(UCP120J)

Authors: Frey, K.M.; Anderson, A.C.

Deposited on : 2011-06-15

Resolution : 3.00 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 (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 (i)) 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 : 2.36

buster-report : 1.1.7 (2018)

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

Refmac : 5.8.0158

CCP4 : 7.0.044 (Gargrove)

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

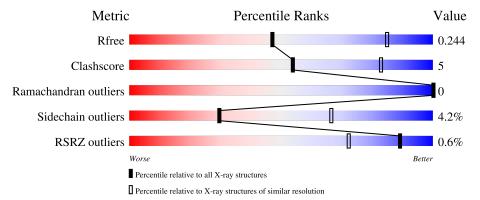
Validation Pipeline (wwPDB-VP) : 2.36

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 3.00 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 $(\# \mathrm{Entries})$	$\begin{array}{c} {\rm Similar\ resolution} \\ (\#{\rm Entries,\ resolution\ range(\mathring{A})}) \end{array}$
R_{free}	130704	2092 (3.00-3.00)
Clashscore	141614	2416 (3.00-3.00)
Ramachandran outliers	138981	2333 (3.00-3.00)
Sidechain outliers	138945	2336 (3.00-3.00)
RSRZ outliers	127900	1990 (3.00-3.00)

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	167	80%	13%	• 6%
1	В	167	80%	14%	6%



2 Entry composition (i)

There are 3 unique types of molecules in this entry. The entry contains 2694 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 Dihydrofolate reductase.

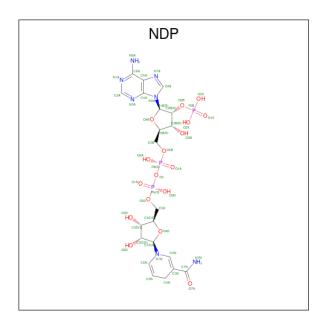
Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	A	157	Total 1272		N 213	O 234	S 3	0	0	0
1	В	157	Total 1272		N 213	O 234	S 3	0	0	0

There are 20 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	158	LEU	-	expression tag	UNP P0A017
A	159	GLU	-	expression tag	UNP P0A017
A	160	HIS	-	expression tag	UNP P0A017
A	161	HIS	-	expression tag	UNP P0A017
A	162	HIS	-	expression tag	UNP P0A017
A	163	HIS	-	expression tag	UNP P0A017
A	164	HIS	-	expression tag	UNP P0A017
A	165	HIS	-	expression tag	UNP P0A017
A	166	HIS	-	expression tag	UNP P0A017
A	167	HIS	-	expression tag	UNP P0A017
В	158	LEU	-	expression tag	UNP P0A017
В	159	GLU	-	expression tag	UNP P0A017
В	160	HIS	-	expression tag	UNP P0A017
В	161	HIS	-	expression tag	UNP P0A017
В	162	HIS	-	expression tag	UNP P0A017
В	163	HIS	-	expression tag	UNP P0A017
В	164	HIS	-	expression tag	UNP P0A017
В	165	HIS	-	expression tag	UNP P0A017
В	166	HIS		expression tag	UNP P0A017
В	167	HIS	-	expression tag	UNP P0A017

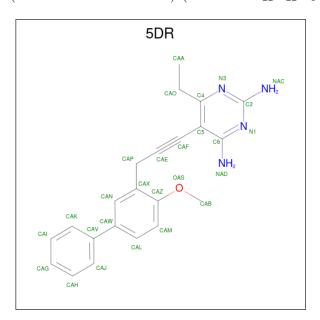
• Molecule 2 is NADPH DIHYDRO-NICOTINAMIDE-ADENINE-DINUCLEOTIDE PHOSPHATE (three-letter code: NDP) (formula: C₂₁H₃₀N₇O₁₇P₃).





Mol	Chain	Residues	Atoms				ZeroOcc	AltConf		
2	Λ	1	Total	С	N	О	Р	0	0	
$A \qquad A$	A	Α 1	48	21	7	17	3	U		
9	D	1	Total	С	N	О	Р	0	0	
2	D	R I		21	7	17	3	U	0	

• Molecule 3 is 6-ethyl-5-[3-(4-methoxybiphenyl-3-yl)prop-1-yn-1-yl]pyrimidine-2,4-diamine (three-letter code: 5DR) (formula: $C_{22}H_{22}N_4O$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total 27	C 22	N 4	O 1	0	0



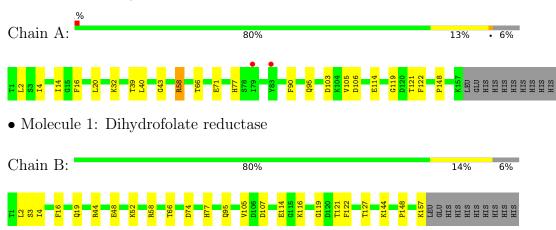
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	В	1	Total 27	C 22	N 4	O 1	0	0



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: Dihydrofolate reductase





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 61	Depositor
Cell constants	86.16Å 86.16Å 103.24Å	Domositon
a, b, c, α , β , γ	90.00° 90.00° 120.00°	Depositor
Resolution (Å)	37.32 - 3.00	Depositor
Resolution (A)	37.31 - 3.00	EDS
% Data completeness	99.9 (37.32-3.00)	Depositor
(in resolution range)	99.9 (37.31-3.00)	EDS
R_{merge}	0.17	Depositor
R_{sym}	0.17	Depositor
$< I/\sigma(I) > 1$	3.60 (at 3.01Å)	Xtriage
Refinement program	REFMAC 5.2.0019	Depositor
D D	0.216 , 0.250	Depositor
R, R_{free}	0.212 , 0.244	DCC
R_{free} test set	418 reflections (4.77%)	wwPDB-VP
Wilson B-factor (Å ²)	58.3	Xtriage
Anisotropy	0.103	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	$0.32\;,12.5$	EDS
L-test for twinning ²	$< L >=0.51, < L^2>=0.34$	Xtriage
Estimated twinning fraction	0.047 for h,-h-k,-l	Xtriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	2694	wwPDB-VP
Average B, all atoms (Å ²)	57.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 7.90% 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: 5DR, NDP

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		
MIOI	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	A	0.33	0/1305	0.49	0/1770	
1	В	0.33	0/1305	0.49	0/1770	
All	All	0.33	0/2610	0.49	0/3540	

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	A	1272	0	1263	14	0
1	В	1272	0	1263	11	0
2	A	48	0	26	5	0
2	В	48	0	26	3	0
3	A	27	0	22	3	0
3	В	27	0	22	2	0
All	All	2694	0	2622	28	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 5.

All (28) close contacts within the same asymmetric unit are listed below, sorted by their clash



magnitude.

Atom-1	Atom-2	Interatomic	Clash
Atom-1	Atom-2	${f distance}({ m \AA})$	$ ext{overlap }(\mathring{\mathbf{A}})$
1:B:3:SER:HB3	1:B:107:ASP:HB3	1.61	0.82
1:B:95:GLN:HE21	1:B:122:PHE:H	1.30	0.79
1:A:95:GLN:HE21	1:A:122:PHE:H	1.33	0.76
2:B:207:NDP:H42N	3:B:168:5DR:CAE	2.35	0.56
1:B:3:SER:CB	1:B:107:ASP:HB3	2.34	0.55
1:A:95:GLN:HG3	1:A:122:PHE:O	2.07	0.53
1:A:121:THR:HG21	2:A:207:NDP:H4D	1.92	0.51
1:B:114:GLU:HB2	1:B:148:PRO:HB2	1.92	0.51
1:A:43:GLY:HA3	2:A:207:NDP:H52A	1.94	0.50
1:A:114:GLU:HB2	1:A:148:PRO:HB2	1.94	0.49
1:A:4:ILE:HG13	1:A:105:VAL:HG11	1.94	0.49
2:A:207:NDP:H42N	3:A:168:5DR:CAE	2.43	0.49
1:A:2:LEU:HG	1:A:105:VAL:HG12	1.95	0.49
1:A:66:THR:HA	1:A:77:HIS:CE1	2.48	0.48
1:B:2:LEU:HG	1:B:105:VAL:HG12	1.94	0.48
1:B:16:PHE:HB2	1:B:119:GLY:HA2	1.96	0.47
1:A:16:PHE:HB2	1:A:119:GLY:HA2	1.97	0.46
2:B:207:NDP:H42N	3:B:168:5DR:CAF	2.46	0.46
1:B:4:ILE:HG13	1:B:105:VAL:HG11	1.96	0.46
1:B:121:THR:HG21	2:B:207:NDP:H4D	1.99	0.45
1:A:39:THR:HG23	1:A:58:ARG:HB3	1.97	0.45
2:A:207:NDP:H42N	3:A:168:5DR:CAF	2.47	0.44
1:B:66:THR:HA	1:B:77:HIS:CE1	2.52	0.44
1:A:40:LEU:HD23	1:A:90:PHE:HB2	2.02	0.42
1:A:20:LEU:HG	3:A:168:5DR:HABB	2.01	0.42
1:A:114:GLU:HB3	1:B:116:LYS:HG3	2.01	0.41
1:B:44:ARG:O	1:B:48:GLU:HG2	2.20	0.41
1:A:14:ILE:O	2:A:207:NDP:H2N	2.20	0.41

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	Analysed Favoured Allowed		Outliers	Perce	ntiles
1	A	155/167~(93%)	150 (97%)	5 (3%)	0	100	100
1	В	155/167 (93%)	150 (97%)	5 (3%)	0	100	100
All	All	310/334 (93%)	300 (97%)	10 (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	144/154 (94%)	139 (96%)	5 (4%)	36 71		
1	В	144/154 (94%)	137 (95%)	7 (5%)	25 61		
All	All	288/308 (94%)	276 (96%)	12 (4%)	30 66		

All (12) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	32	LYS
1	A	58	ARG
1	A	71	GLU
1	A	103	ASP
1	A	106	ASP
1	В	19	GLN
1	В	52	LYS
1	В	58	ARG
1	В	74	ASP
1	В	127	THR
1	В	144	LYS
1	В	157	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	95	GLN



Mol	Chain	Res	Type
1	В	95	GLN

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)

4 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 Ty	Trme	na Chain		Link	Bond lengths			Bond angles				
MIOI	Mol Type Chain	Res	Lilik	Counts	RMSZ	# Z > 2	Counts	RMSZ	RMSZ $ \# Z > 2$ 1.06 1 (1%) 1.95 7 (21%)			
2	NDP	В	207	-	45,52,52	1.83	6 (13%)	53,80,80	1.06	1 (1%)		
3	5DR	В	168	-	29,29,29	1.04	2 (6%)	32,39,39	1.95	7 (21%)		
3	5DR	A	168	-	29,29,29	1.05	2 (6%)	32,39,39	1.95	7 (21%)		
2	NDP	A	207	-	45,52,52	1.84	6 (13%)	53,80,80	1.10	1 (1%)		

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	NDP	В	207	-	-	2/30/77/77	0/5/5/5
3	5DR	В	168	-	-	4/13/14/14	0/3/3/3
3	5DR	A	168	-	-	6/13/14/14	0/3/3/3
2	NDP	A	207	-	-	9/30/77/77	0/5/5/5

All (16) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\operatorname{Observed}(\text{\AA})$	$Ideal(\AA)$
2	В	207	NDP	O7N-C7N	7.09	1.41	1.24
2	A	207	NDP	O7N-C7N	7.02	1.41	1.24
2	A	207	NDP	C4N-C3N	-5.14	1.39	1.49
2	В	207	NDP	C4N-C3N	-5.13	1.39	1.49
2	A	207	NDP	C2A-N3A	4.20	1.38	1.32
2	В	207	NDP	C2A-N3A	4.12	1.38	1.32
2	A	207	NDP	C6N-C5N	3.76	1.40	1.33
2	В	207	NDP	C6N-C5N	3.61	1.39	1.33
2	В	207	NDP	C4N-C5N	-3.52	1.39	1.48
3	В	168	5DR	CAW-CAV	-3.45	1.40	1.49
2	A	207	NDP	C4N-C5N	-3.45	1.39	1.48
3	A	168	5DR	CAW-CAV	-3.39	1.40	1.49
3	A	168	5DR	CAF-CAE	2.97	1.23	1.19
3	В	168	5DR	CAF-CAE	2.91	1.23	1.19
2	A	207	NDP	C2A-N1A	2.66	1.38	1.33
2	В	207	NDP	C2A-N1A	2.57	1.38	1.33

All (16) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^o)$	$\operatorname{Ideal}({}^{o})$
3	A	168	5DR	C2-N3-C4	6.80	121.91	116.24
3	В	168	5DR	C2-N3-C4	6.79	121.90	116.24
2	В	207	NDP	N3A-C2A-N1A	-5.63	119.88	128.68
2	A	207	NDP	N3A-C2A-N1A	-5.59	119.94	128.68
3	В	168	5DR	CAB-OAS-CAZ	-3.55	112.18	117.53
3	A	168	5DR	C2-N1-C6	3.33	120.66	116.99
3	В	168	5DR	C2-N1-C6	3.29	120.62	116.99
3	A	168	5DR	CAB-OAS-CAZ	-3.26	112.61	117.53
3	A	168	5DR	N3-C2-N1	-3.11	120.54	125.42
3	В	168	5DR	N3-C2-N1	-3.07	120.60	125.42
3	A	168	5DR	CAO-C4-C5	2.95	124.75	122.66
3	В	168	5DR	OAS-CAZ-CAX	2.89	120.00	115.97
3	В	168	5DR	CAO-C4-C5	2.78	124.64	122.66
3	A	168	5DR	OAS-CAZ-CAX	2.77	119.83	115.97



Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\mathbf{Observed}(^o)$	$\mathbf{Ideal}(^{o})$
3	A	168	5DR	OAS-CAZ-CAM	-2.76	119.65	124.37
3	В	168	5DR	OAS-CAZ-CAM	-2.70	119.74	124.37

There are no chirality outliers.

All (21) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	207	NDP	O4B-C4B-C5B-O5B
2	A	207	NDP	C1B-C2B-O2B-P2B
3	A	168	5DR	CAE-CAP-CAX-CAZ
2	A	207	NDP	C3B-C4B-C5B-O5B
3	A	168	5DR	CAM-CAZ-OAS-CAB
3	В	168	5DR	CAM-CAZ-OAS-CAB
3	В	168	5DR	CAX-CAZ-OAS-CAB
3	A	168	5DR	CAX-CAZ-OAS-CAB
2	В	207	NDP	O4D-C1D-N1N-C2N
2	A	207	NDP	C3B-C2B-O2B-P2B
2	A	207	NDP	PA-O3-PN-O1N
3	A	168	5DR	CAE-CAP-CAX-CAN
3	В	168	5DR	CAE-CAP-CAX-CAN
2	A	207	NDP	O4D-C1D-N1N-C2N
2	A	207	NDP	C3D-C4D-C5D-O5D
3	В	168	5DR	CAE-CAP-CAX-CAZ
3	A	168	5DR	CAP-CAE-CAF-C5
2	A	207	NDP	PA-O3-PN-O2N
2	A	207	NDP	C5D-O5D-PN-O1N
2	В	207	NDP	C5B-O5B-PA-O1A
3	A	168	5DR	C5-C4-CAO-CAA

There are no ring outliers.

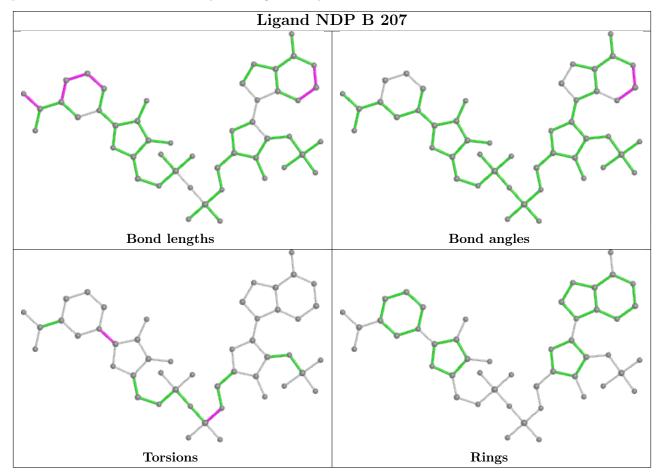
4 monomers are involved in 9 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	В	207	NDP	3	0
3	В	168	5DR	2	0
3	A	168	5DR	3	0
2	A	207	NDP	5	0

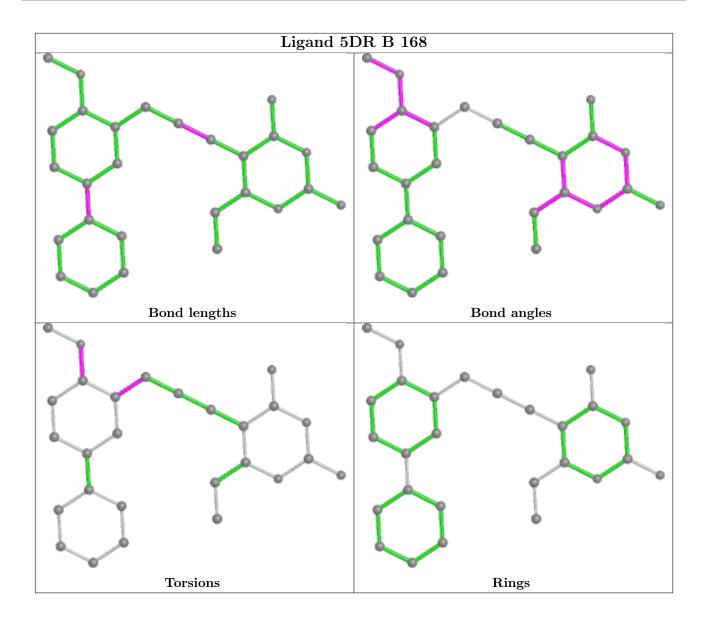
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will



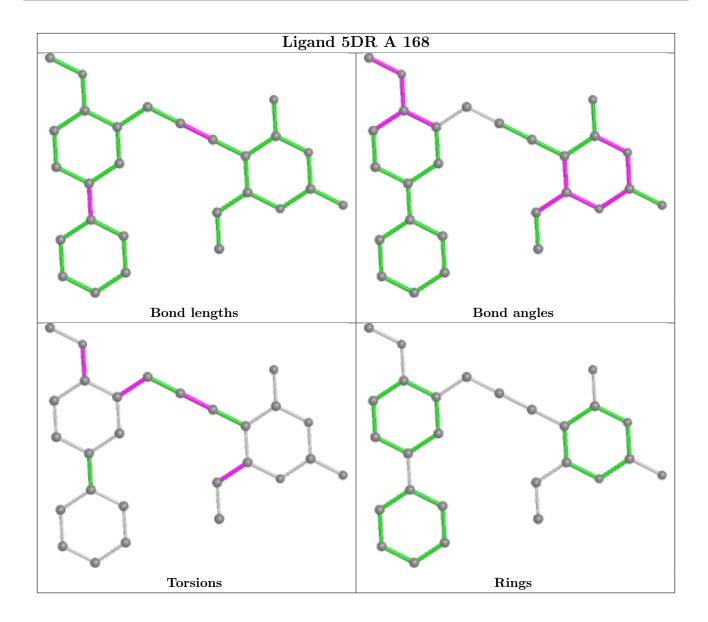
also be included. For torsion angles, if less then 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted 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.



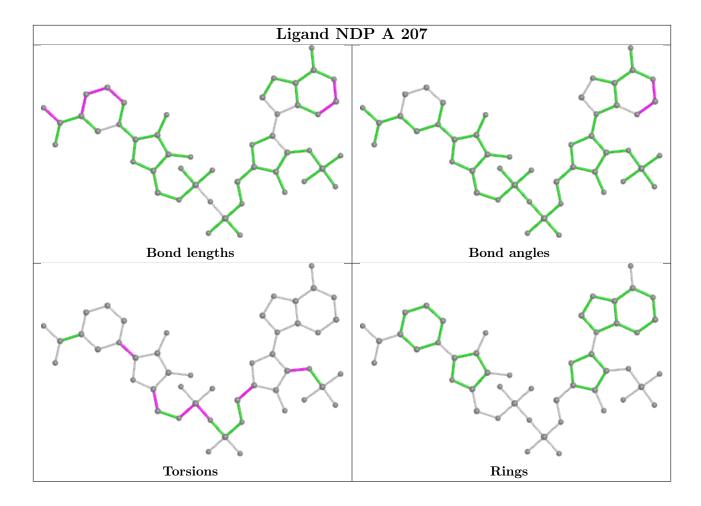












5.7 Other polymers (i)

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 > 2	$OWAB(A^2)$	Q<0.9
1	A	157/167 (94%)	0.08	2 (1%) 77 51	46, 57, 72, 73	0
1	В	157/167 (94%)	0.05	0 100 100	46, 57, 71, 72	0
All	All	314/334 (94%)	0.06	2 (0%) 89 72	46, 57, 72, 73	0

All (2) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	83	TYR	2.9
1	A	79	ILE	2.3

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)

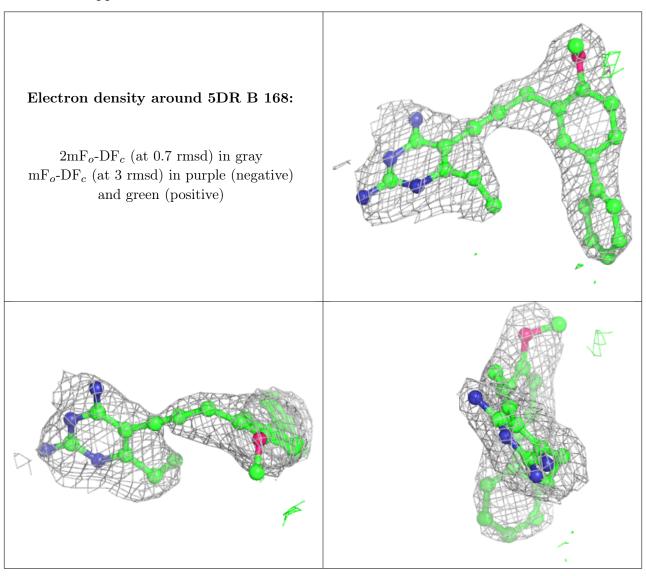
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{ ilde{A}}^2)$	Q<0.9
3	5DR	В	168	27/27	0.93	0.29	52,52,53,53	0
3	5DR	A	168	27/27	0.94	0.23	53,54,54,54	0
2	NDP	A	207	48/48	0.95	0.16	55,59,65,66	0

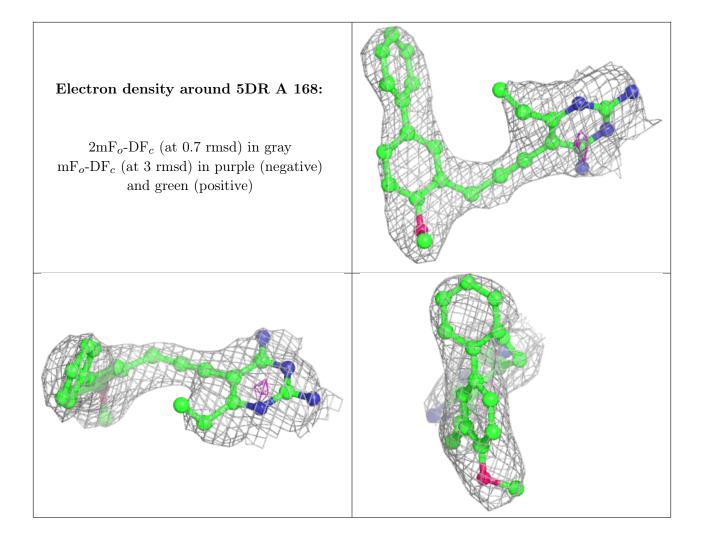


Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
2	NDP	В	207	48/48	0.95	0.18	49,55,58,59	0

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.









Electron density around NDP A 207: $2 \mathrm{mF}_o\text{-}\mathrm{DF}_c$ (at 0.7 rmsd) in gray ${ m mF}_o{ m -DF}_c$ (at 3 rmsd) in purple (negative) and green (positive) Electron density around NDP B 207: $2 \mathrm{mF}_o\text{-}\mathrm{DF}_c$ (at 0.7 rmsd) in gray mF_o -DF_c (at 3 rmsd) in purple (negative) and green (positive)



6.5 Other polymers (i)

There are no such residues in this entry.

