



wwPDB X-ray Structure Validation Summary Report ⓘ

Jun 15, 2024 – 06:20 PM EDT

PDB ID : 2RGU
Title : Crystal structure of complex of human DPP4 and inhibitor
Authors : Nar, H.; Himmelsbach, F.; Eckhardt, M.
Deposited on : 2007-10-05
Resolution : 2.60 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 ⓘ 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	:	4.02b-467
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	1.20.1
EDS	:	2.37.1
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)	:	2.37.1

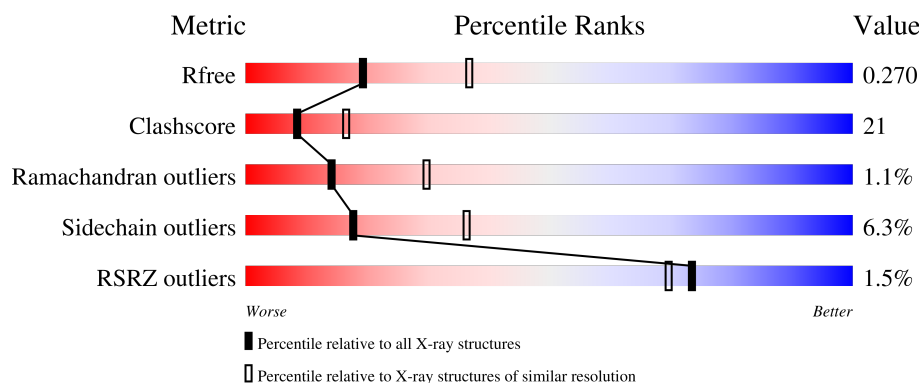
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.60 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}	130704	3163 (2.60-2.60)
Clashscore	141614	3518 (2.60-2.60)
Ramachandran outliers	138981	3455 (2.60-2.60)
Sidechain outliers	138945	3455 (2.60-2.60)
RSRZ outliers	127900	3104 (2.60-2.60)

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	734	
1	B	734	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	NAG	A	795	X	-	-	-
2	NAG	A	796	X	-	-	-
2	NAG	B	793	X	-	-	-
2	NAG	B	794	X	-	-	-
2	NAG	B	796	X	-	-	-

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 12323 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 Dipeptidyl peptidase 4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	728	Total	C	N	O	S	0	0	0
			5963	3827	982	1128	26			
1	B	728	Total	C	N	O	S	0	0	0
			5963	3827	982	1128	26			

There are 12 discrepancies between the modelled and reference sequences:

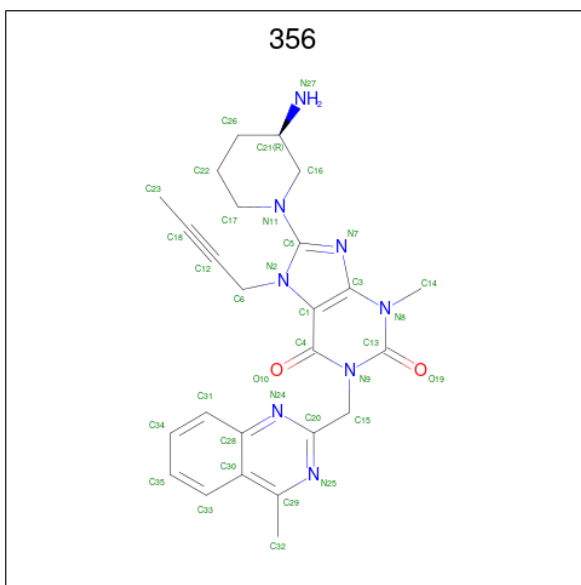
Chain	Residue	Modelled	Actual	Comment	Reference
A	767	HIS	-	expression tag	UNP P27487
A	768	HIS	-	expression tag	UNP P27487
A	769	HIS	-	expression tag	UNP P27487
A	770	HIS	-	expression tag	UNP P27487
A	771	HIS	-	expression tag	UNP P27487
A	772	HIS	-	expression tag	UNP P27487
B	767	HIS	-	expression tag	UNP P27487
B	768	HIS	-	expression tag	UNP P27487
B	769	HIS	-	expression tag	UNP P27487
B	770	HIS	-	expression tag	UNP P27487
B	771	HIS	-	expression tag	UNP P27487
B	772	HIS	-	expression tag	UNP P27487

- Molecule 2 is 2-acetamido-2-deoxy-beta-D-glucopyranose (three-letter code: NAG) (formula: C₈H₁₅NO₆).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	N	O	0	0
			15	8	1	6		
2	A	1	Total	C	N	O	0	0
			15	8	1	6		
2	A	1	Total	C	N	O	0	0
			15	8	1	6		
2	A	1	Total	C	N	O	0	0
			15	8	1	6		
2	B	1	Total	C	N	O	0	0
			15	8	1	6		
2	B	1	Total	C	N	O	0	0
			15	8	1	6		
2	B	1	Total	C	N	O	0	0
			15	8	1	6		

- Molecule 3 is 8-[(3R)-3-Aminopiperidin-1-yl]-7-but-2-yn-1-yl-3-methyl-1-[(4-methylquinazolin-2-yl)methyl]-3,7-dihydro-1H-purine-2,6-dione (three-letter code: 356) (formula: C₂₅H₂₈N₈O₂).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total 35	C 25	N 8	O 2	0	0
3	B	1	Total 35	C 25	N 8	O 2	0	0

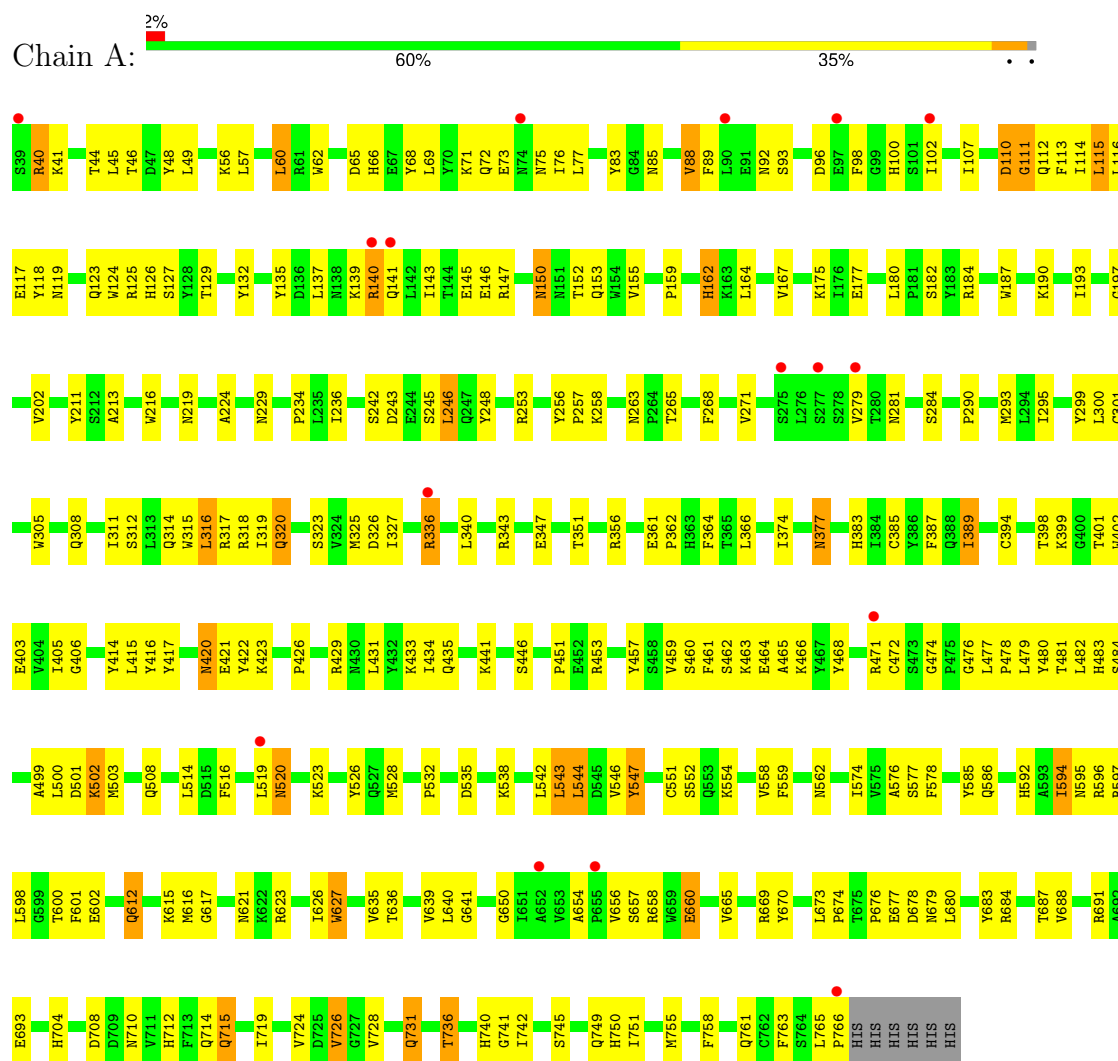
- Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	96	Total O 96 96	0	0
4	B	111	Total O 111 111	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: Dipeptidyl peptidase 4



N679	N680	R684	N685	N689	A692	E693	N694	F695	K696	I703	H704	N710	V711	H712	Q715	S716	A717	Q718	I719	A722	V726	D729	N733	G741	I742	S745	Q749	H750	I751	N755	F758	Q761	C762	P766	HIS	HIS	HIS	HIS	HIS											
T557	V558	F559	R560	L561	N562	T565	L573	Y585	T594	T600	F601	E602	R611	Q612	F613	S614	K615	K616	G617	F618	V619	D620	N621	K622	L626	W627	G633	L640	K648	C649	Q650	I651	A654	P655	V656	S657	R658	Y662	D663	R669	P674	T675	P676	E677	D678					
N450	Y456	Y457	S458	V459	S460	F461	S462	Y468	Q469	L470	R471	C472	P478	L479	Y480	T481	H482	H483	V486	R492	L500	L504	V507	G508	M509	P510	S511	K512	K513	L514	D515	T518	L519	Q527	F534	K538	P541	L542	L543	V546	Y547	Q553	D556							
K337	N338	C339	R343	E361	T374	I375	S376	N377	E378	E379	G380	Y381	R382	H383	Y384	C385	F386	F387	Q388	I389	D390	K391	R392	D393	C394	I397	T398	T401	W402	T288	E403	G406	Y414	L415	Y416	Y417	I418	S419	N420	E421	R429	N430	L431	Y432	K433	I434	K441	L445	S446	
Y135	D136	L137	N138	K139	R140	Q141	L142	L143	N150	N151	T152	Q153	W154	V155	T156	W157	S158	P159	V160	G161	H162	K163	L164	K175	I176	E177	L180	P181	S182	N196	G197	V202	Y203	E206	V207	Y211	L214	W215	W216	S217	P218	N219	F222	L223	A224	Y225	A226	Q227	F228	N229
E232	V233	P234	L235	I236	E237	L246	Q247	Y248	P249	R253	V254	P255	Y256	V262	N263	V266	K267	F268	F269	T273	V279	S284	T285	Q286	T287	A289	H298	Y299	L300	W305	Q308	T311	L316	I319	Q320	D326	I327	C328	E332	S333	R336									

4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	65.30Å 67.10Å 419.90Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	40.00 – 2.60 33.18 – 2.60	Depositor EDS
% Data completeness (in resolution range)	97.5 (40.00-2.60) 97.6 (33.18-2.60)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.58 (at 2.61Å)	Xtriage
Refinement program	CNS	Depositor
R, R_{free}	0.217 , 0.276 0.213 , 0.270	Depositor DCC
R_{free} test set	2878 reflections (5.07%)	wwPDB-VP
Wilson B-factor (Å ²)	53.5	Xtriage
Anisotropy	0.654	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 37.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	0.034 for k,h,-l	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	12323	wwPDB-VP
Average B, all atoms (Å ²)	53.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.67% 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 [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: 356, NAG

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	0.39	0/6135	0.65	0/8344
1	B	0.41	0/6135	0.67	1/8344 (0.0%)
All	All	0.40	0/12270	0.66	1/16688 (0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	60	LEU	CA-CB-CG	5.47	127.89	115.30

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	5963	0	5685	269	0
1	B	5963	0	5685	231	0
2	A	60	0	60	21	0
2	B	60	0	60	14	0
3	A	35	0	28	0	0
3	B	35	0	28	1	0
4	A	96	0	0	28	0
4	B	111	0	0	18	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
All	All	12323	0	11546	492	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 21.

The worst 5 of 492 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:85:ASN:ND2	2:B:794:NAG:H1	1.30	1.42
1:B:85:ASN:HD21	2:B:794:NAG:C1	1.43	1.31
1:A:229:ASN:HD21	2:A:796:NAG:C1	1.72	1.01
1:B:403:GLU:H	1:B:420:ASN:HD21	1.09	0.98
1:A:85:ASN:ND2	2:A:794:NAG:H1	1.79	0.96

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	726/734 (99%)	657 (90%)	59 (8%)	10 (1%)	11	22
1	B	726/734 (99%)	662 (91%)	58 (8%)	6 (1%)	19	39
All	All	1452/1468 (99%)	1319 (91%)	117 (8%)	16 (1%)	14	30

5 of 16 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	320	GLN
1	B	140	ARG
1	B	333	SER
1	B	393	ASP

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Mol	Chain	Res	Type
1	A	111	GLY

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	653/659 (99%)	611 (94%)	42 (6%)	17	35
1	B	653/659 (99%)	613 (94%)	40 (6%)	18	38
All	All	1306/1318 (99%)	1224 (94%)	82 (6%)	18	36

5 of 82 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	256	TYR
1	B	547	TYR
1	B	300	LEU
1	B	472	CYS
1	B	655	PRO

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 48 such sidechains are listed below:

Mol	Chain	Res	Type
1	B	123	GLN
1	B	383	HIS
1	B	126	HIS
1	B	263	ASN
1	B	483	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](#)

10 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	NAG	A	793	-	15,15,15	0.30	0	21,21,21	0.65	0
2	NAG	A	794	-	15,15,15	0.46	0	21,21,21	0.85	1 (4%)
2	NAG	B	794	-	15,15,15	0.35	0	21,21,21	0.67	0
2	NAG	A	796	-	15,15,15	0.43	0	21,21,21	0.72	1 (4%)
2	NAG	B	796	-	15,15,15	0.34	0	21,21,21	0.92	1 (4%)
2	NAG	B	797	-	15,15,15	0.48	0	21,21,21	0.71	0
3	356	A	901	-	35,39,39	1.59	9 (25%)	37,57,57	2.82	13 (35%)
3	356	B	902	-	35,39,39	1.71	9 (25%)	37,57,57	2.90	12 (32%)
2	NAG	A	795	-	15,15,15	0.42	0	21,21,21	0.57	0
2	NAG	B	793	-	15,15,15	0.49	0	21,21,21	0.64	0

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	NAG	A	793	-	-	2/6/26/26	0/1/1/1
2	NAG	A	794	-	-	2/6/26/26	0/1/1/1
2	NAG	B	794	-	1/1/6/7	2/6/26/26	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	NAG	A	796	-	1/1/6/7	2/6/26/26	0/1/1/1
2	NAG	B	796	-	1/1/6/7	2/6/26/26	0/1/1/1
2	NAG	B	797	-	-	2/6/26/26	0/1/1/1
3	356	A	901	-	-	2/6/22/22	0/5/5/5
3	356	B	902	-	-	1/6/22/22	0/5/5/5
2	NAG	A	795	-	1/1/6/7	2/6/26/26	0/1/1/1
2	NAG	B	793	-	1/1/6/7	4/6/26/26	0/1/1/1

The worst 5 of 18 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	902	356	C5-N7	-3.84	1.28	1.35
3	B	902	356	C30-C28	3.45	1.47	1.42
3	A	901	356	C5-N7	-3.11	1.30	1.35
3	B	902	356	C22-C26	3.01	1.60	1.53
3	A	901	356	C15-C20	2.89	1.53	1.50

The worst 5 of 28 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	902	356	C1-C4-N9	7.63	119.83	113.58
3	A	901	356	C1-C4-N9	7.17	119.45	113.58
3	B	902	356	C20-N25-C29	6.53	122.47	117.22
3	B	902	356	C4-N9-C13	-6.44	120.62	125.33
3	A	901	356	C30-C29-N25	-6.37	118.08	122.24

All (5) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
2	A	795	NAG	C1
2	A	796	NAG	C1
2	B	793	NAG	C1
2	B	794	NAG	C1
2	B	796	NAG	C1

5 of 21 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	901	356	C18-C12-C6-N2
3	B	902	356	N9-C15-C20-N25

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Mol	Chain	Res	Type	Atoms
2	A	793	NAG	C4-C5-C6-O6
2	A	793	NAG	O5-C5-C6-O6
2	B	793	NAG	C4-C5-C6-O6

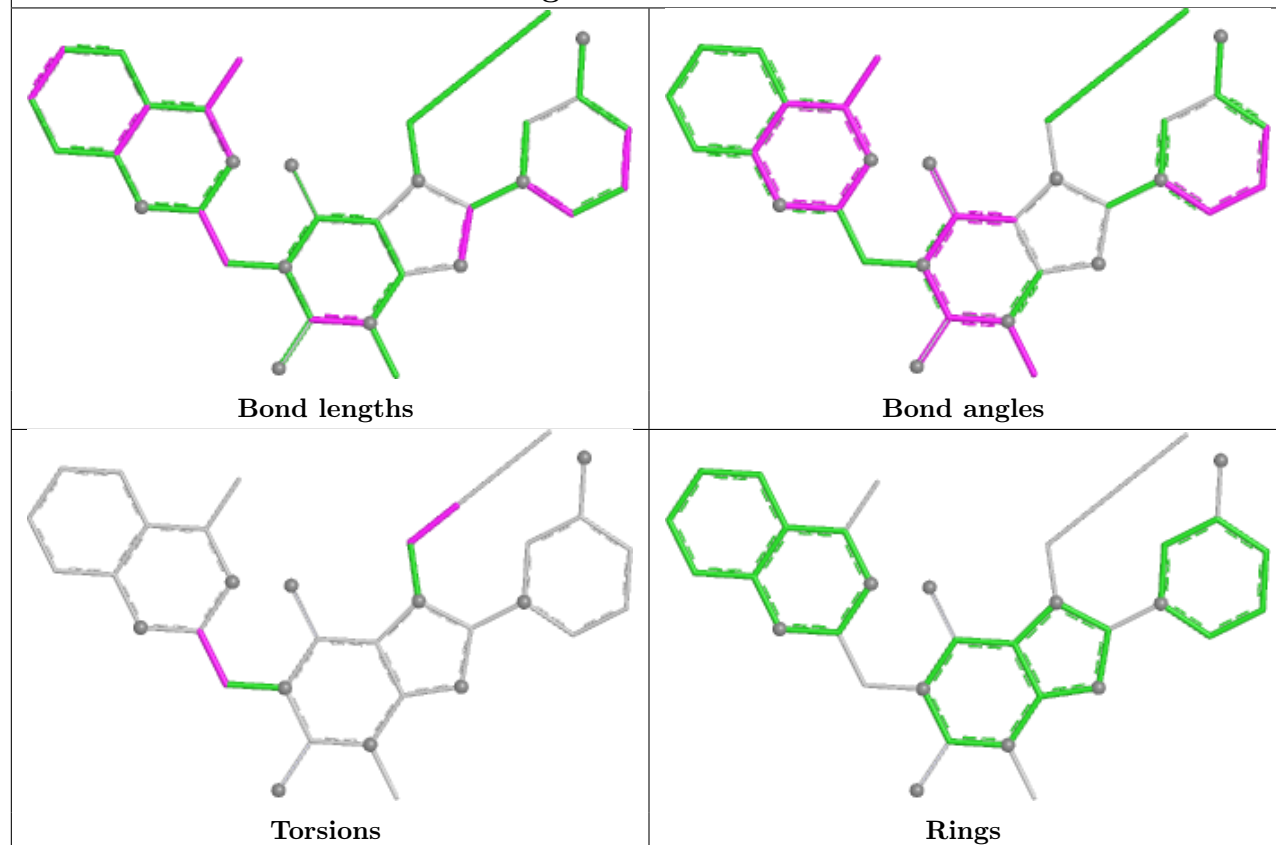
There are no ring outliers.

9 monomers are involved in 36 short contacts:

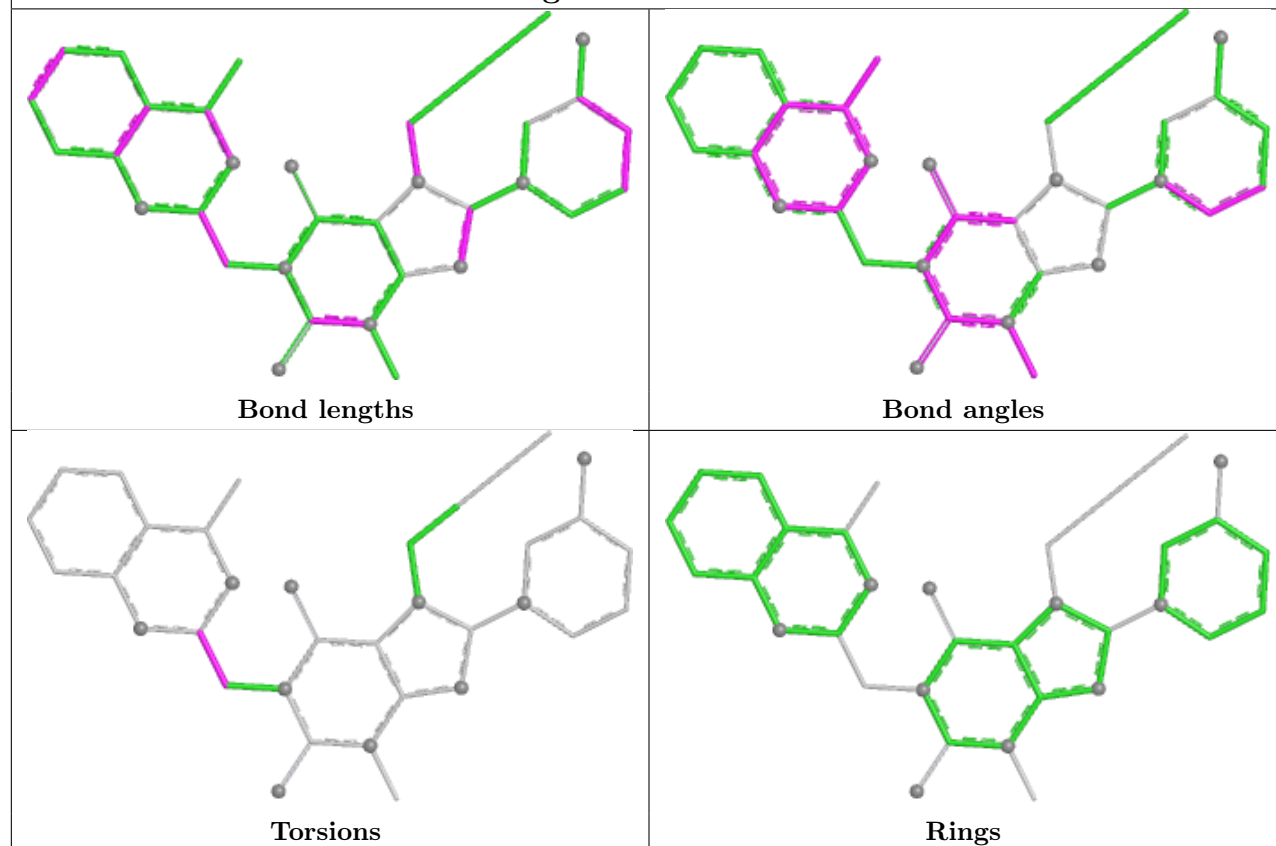
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	793	NAG	3	0
2	A	794	NAG	6	0
2	B	794	NAG	6	0
2	A	796	NAG	6	0
2	B	796	NAG	5	0
2	B	797	NAG	1	0
3	B	902	356	1	0
2	A	795	NAG	6	0
2	B	793	NAG	2	0

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.

Ligand 356 A 901



Ligand 356 B 902



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	728/734 (99%)	-0.10	16 (2%) 62 56	36, 55, 82, 98	0
1	B	728/734 (99%)	-0.23	6 (0%) 86 84	34, 48, 72, 86	0
All	All	1456/1468 (99%)	-0.17	22 (1%) 73 70	34, 51, 77, 98	0

The worst 5 of 22 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	39	SER	5.0
1	B	279	VAL	3.5
1	A	279	VAL	3.2
1	B	97	GLU	3.1
1	A	97	GLU	3.0

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 monosaccharides in this entry.

6.4 Ligands [i](#)

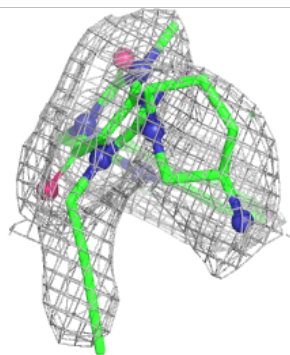
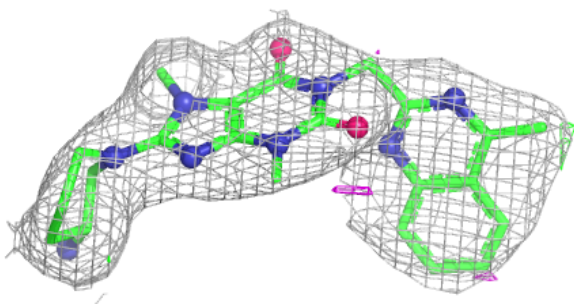
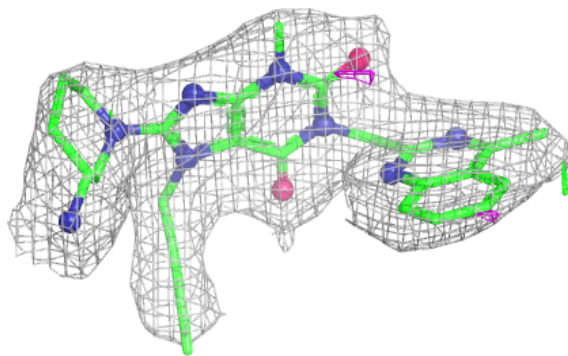
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled ‘Q < 0.9’ lists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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
2	NAG	B	793	15/15	0.81	0.22	98,99,100,100	0
2	NAG	A	795	15/15	0.82	0.32	99,99,100,100	0
2	NAG	A	796	15/15	0.86	0.19	79,80,81,82	0
2	NAG	B	797	15/15	0.88	0.14	92,93,93,93	0
2	NAG	B	796	15/15	0.91	0.17	65,65,66,67	0
2	NAG	A	793	15/15	0.92	0.17	95,96,96,97	0
2	NAG	A	794	15/15	0.93	0.18	68,68,69,69	0
3	356	A	901	35/35	0.93	0.20	40,42,45,46	0
2	NAG	B	794	15/15	0.94	0.16	50,52,54,57	0
3	356	B	902	35/35	0.94	0.23	34,36,45,48	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.

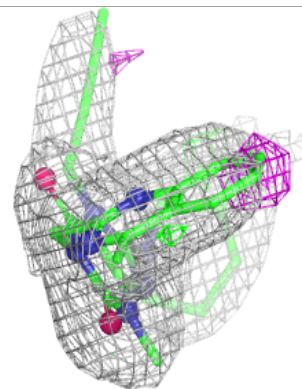
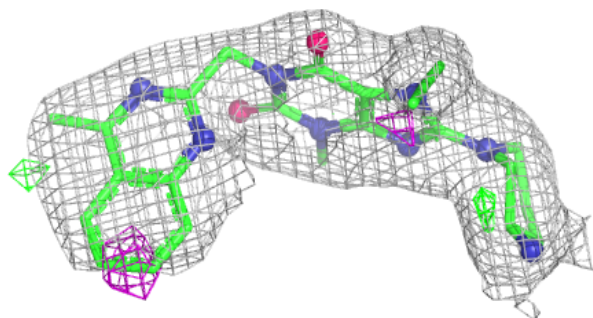
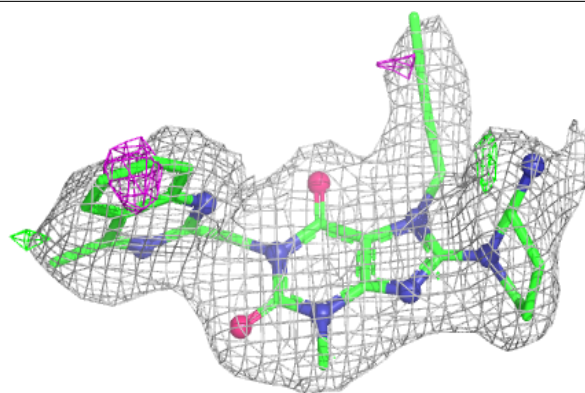
Electron density around 356 A 901:

2mF_o-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around 356 B 902:

$2mF_o-DF_c$ (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.