



Full wwPDB X-ray Structure Validation Report ⓘ

Apr 25, 2026 – 05:37 PM EDT

PDB ID : 5I3O / pdb_00005i3o
Title : Crystal Structure of BMP-2-inducible kinase in complex with an Indazole inhibitor
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Deposited on : 2016-02-10
Resolution : 2.40 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)

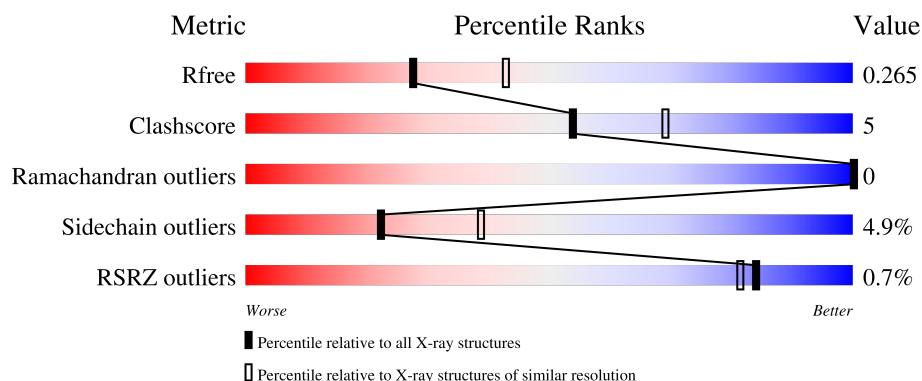
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.40 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	4912 (2.40-2.40)
Clashscore	190562	5391 (2.40-2.40)
Ramachandran outliers	187476	5320 (2.40-2.40)
Sidechain outliers	187428	5321 (2.40-2.40)
RSRZ outliers	180081	4916 (2.40-2.40)

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	302	
1	B	302	

Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
 Validation Pipeline (wwPDB-VP) : 2.49

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 5106 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.

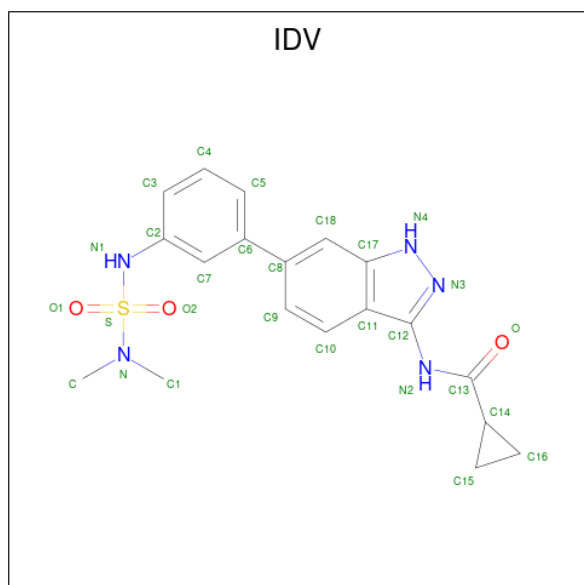
- Molecule 1 is a protein called BMP-2-inducible protein kinase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	302	Total	C	N	O	S	0	0	0
			2377	1513	406	437	21			
1	B	302	Total	C	N	O	S	0	0	0
			2380	1514	406	439	21			

There are 4 discrepancies between the modelled and reference sequences:

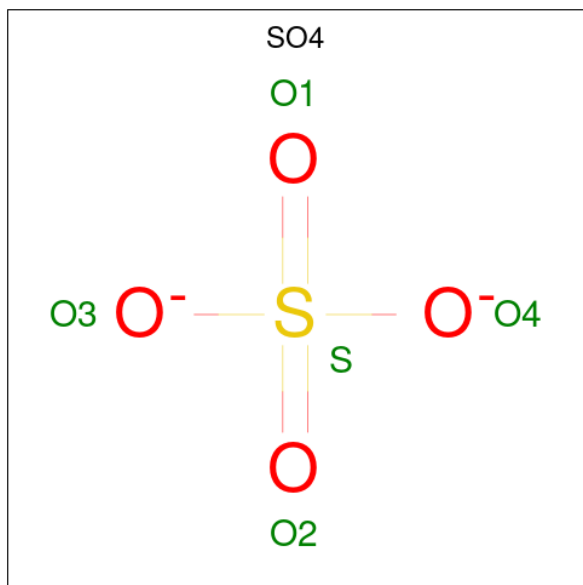
Chain	Residue	Modelled	Actual	Comment	Reference
A	320	ALA	LYS	engineered mutation	UNP Q9NSY1
A	321	ALA	LYS	engineered mutation	UNP Q9NSY1
B	320	ALA	LYS	engineered mutation	UNP Q9NSY1
B	321	ALA	LYS	engineered mutation	UNP Q9NSY1

- Molecule 2 is N-(6-{3-[(dimethylsulfamoyl)amino]phenyl}-1H-indazol-3-yl)cyclopropanecarboxamide (CCD ID: IDV) (formula: C₁₉H₂₁N₅O₃S).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	A	1	Total	C	N	O	S	0	0
			28	19	5	3	1		
2	B	1	Total	C	N	O	S	0	0
			28	19	5	3	1		

- Molecule 3 is SULFATE ION (CCD ID: SO4) (formula: O₄S).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	O	S	0	0
			5	4	1		
3	A	1	Total	O	S	0	0
			5	4	1		

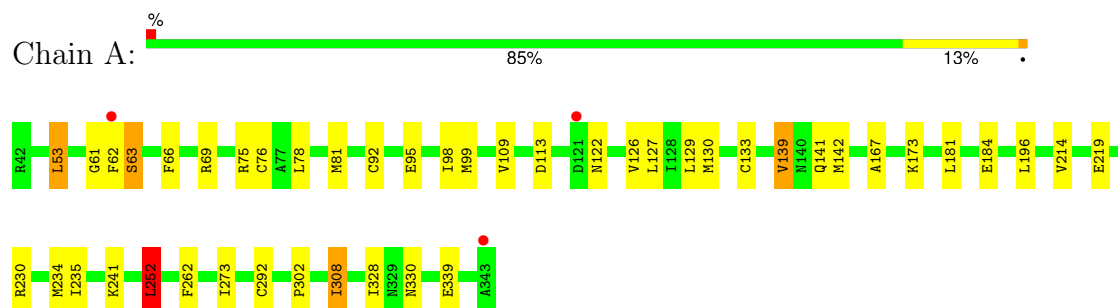
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	161	Total	O	0	0
			161	161		
4	B	122	Total	O	0	0
			122	122		

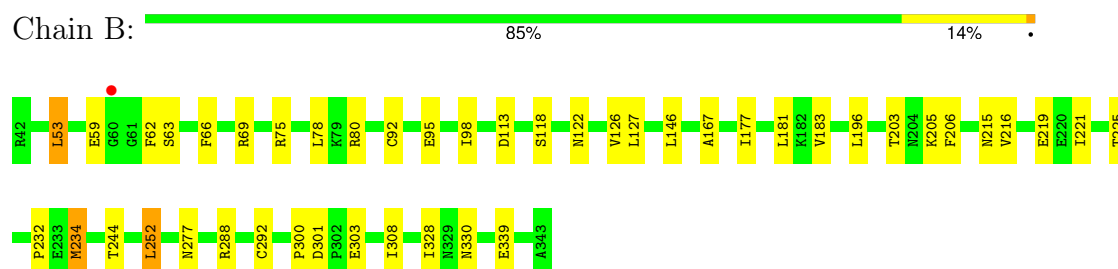
3 Residue-property plots

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: BMP-2-inducible protein kinase



- Molecule 1: BMP-2-inducible protein kinase



4 Data and refinement statistics

Property	Value	Source
Space group	P 43 21 2	Depositor
Cell constants a, b, c, α , β , γ	78.25Å 78.25Å 255.38Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	24.71 – 2.40 24.71 – 2.40	Depositor EDS
% Data completeness (in resolution range)	99.0 (24.71-2.40) 99.3 (24.71-2.40)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.07 (at 2.42Å)	Xtriage
Refinement program	BUSTER 2.10.2	Depositor
R, R_{free}	0.193 , 0.255 0.209 , 0.265	Depositor DCC
R_{free} test set	1602 reflections (5.01%)	wwPDB-VP
Wilson B-factor (Å ²)	49.8	Xtriage
Anisotropy	0.229	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 67.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	5106	wwPDB-VP
Average B, all atoms (Å ²)	67.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.70% 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 ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: IDV, SO4

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	0.85	0/2428	1.28	4/3291 (0.1%)
1	B	0.86	1/2431 (0.0%)	1.30	5/3295 (0.2%)
All	All	0.86	1/4859 (0.0%)	1.29	9/6586 (0.1%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	183	VAL	CA-C	5.05	1.58	1.52

All (9) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	252	LEU	CA-C-N	6.00	126.60	119.94
1	A	252	LEU	C-N-CA	6.00	126.60	119.94
1	B	62	PHE	CA-C-N	5.75	129.65	121.42
1	B	62	PHE	C-N-CA	5.75	129.65	121.42
1	A	141	GLN	CA-C-N	5.14	127.44	120.44
1	A	141	GLN	C-N-CA	5.14	127.44	120.44
1	B	215	ASN	CA-C-N	5.10	127.09	120.56
1	B	215	ASN	C-N-CA	5.10	127.09	120.56
1	B	277	ASN	N-CA-C	5.04	116.90	108.23

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts ⓘ

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	2377	0	2366	30	0
1	B	2380	0	2368	18	0
2	A	28	0	0	1	0
2	B	28	0	0	0	0
3	A	10	0	0	0	0
4	A	161	0	0	0	0
4	B	122	0	0	1	0
All	All	5106	0	4734	47	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 (47) 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:61:GLY:CA	1:A:62:PHE:HB3	2.15	0.77
1:A:109:VAL:HG11	1:A:130:MET:HE3	1.67	0.77
1:A:61:GLY:HA3	1:A:63:SER:H	1.51	0.74
1:B:203:THR:OG1	1:B:205:LYS:HG2	1.88	0.72
1:A:61:GLY:HA3	1:A:62:PHE:HB3	1.71	0.71
1:A:109:VAL:HG11	1:A:130:MET:CE	2.27	0.65
1:A:69:ARG:HE	1:A:75:ARG:HE	1.48	0.61
1:B:69:ARG:HE	1:B:75:ARG:HE	1.49	0.61
1:A:133:CYS:O	2:A:401:IDV:O	2.20	0.60
1:A:61:GLY:HA3	1:A:63:SER:N	2.17	0.56
1:B:225:THR:HG21	1:B:234:MET:HE3	1.88	0.56
1:A:241:LYS:HD2	1:A:302:PRO:CG	2.37	0.54
1:B:53:LEU:HD21	1:B:66:PHE:CD1	2.45	0.52
1:B:92:CYS:HB3	1:B:126:VAL:HG11	1.93	0.51
1:B:63:SER:HA	1:B:80:ARG:O	2.11	0.51
1:A:241:LYS:HD2	1:A:302:PRO:HG2	1.93	0.49
1:A:109:VAL:CG1	1:A:130:MET:HE3	2.40	0.49
1:A:53:LEU:HD21	1:A:66:PHE:CD1	2.48	0.48
1:B:288:ARG:HD2	4:B:603:HOH:O	2.14	0.48
1:B:78:LEU:HD21	1:B:127:LEU:HD22	1.96	0.47
1:A:230:ARG:HA	1:A:234:MET:HE3	1.95	0.47
1:A:61:GLY:CA	1:A:63:SER:H	2.22	0.47
1:A:292:CYS:SG	1:A:339:GLU:HG3	2.56	0.46
1:B:292:CYS:SG	1:B:339:GLU:HG3	2.56	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:61:GLY:CA	1:A:62:PHE:CB	2.85	0.46
1:B:232:PRO:HG2	1:B:300:PRO:HA	1.96	0.46
1:A:78:LEU:HD11	1:A:127:LEU:HB3	1.99	0.45
1:A:63:SER:OG	1:A:81:MET:HG2	2.17	0.45
1:A:92:CYS:HB3	1:A:126:VAL:HG11	1.98	0.45
1:A:95:GLU:O	1:A:98:ILE:HG22	2.17	0.45
1:B:95:GLU:O	1:B:98:ILE:HG22	2.17	0.45
1:A:78:LEU:HD21	1:A:127:LEU:HD22	1.98	0.44
1:A:235:ILE:HD12	1:A:273:ILE:HG21	1.98	0.44
1:A:76:CYS:HB2	1:A:129:LEU:HD11	2.00	0.43
1:A:139:VAL:HG11	1:A:184:GLU:HG3	1.99	0.43
1:B:206:PHE:CD2	1:B:244:THR:HG22	2.54	0.43
1:A:181:LEU:HD13	1:A:252:LEU:HD13	2.00	0.43
1:B:78:LEU:HD11	1:B:127:LEU:HB3	2.01	0.43
1:B:181:LEU:HD13	1:B:252:LEU:HD13	2.02	0.42
1:A:252:LEU:HD12	1:A:252:LEU:HA	1.96	0.41
1:B:301:ASP:OD1	1:B:303:GLU:HB2	2.21	0.41
1:A:142:MET:HE3	1:A:262:PHE:CD1	2.55	0.41
1:B:167:ALA:HA	1:B:308:ILE:HG21	2.02	0.41
1:A:230:ARG:HH12	1:B:59:GLU:CD	2.28	0.41
1:A:95:GLU:O	1:A:99:MET:HG3	2.21	0.41
1:B:221:ILE:HD12	1:B:234:MET:HG2	2.02	0.41
1:A:167:ALA:HA	1:A:308:ILE:HG21	2.04	0.40

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	300/302 (99%)	291 (97%)	9 (3%)	0	100	100
1	B	300/302 (99%)	291 (97%)	9 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
All	All	600/604 (99%)	582 (97%)	18 (3%)	0	100	100

There are no Ramachandran outliers to report.

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	265/266 (100%)	252 (95%)	13 (5%)	22	39
1	B	266/266 (100%)	253 (95%)	13 (5%)	22	39
All	All	531/532 (100%)	505 (95%)	26 (5%)	22	39

All (26) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	53	LEU
1	A	63	SER
1	A	113	ASP
1	A	122	ASN
1	A	139	VAL
1	A	173	LYS
1	A	196	LEU
1	A	214	VAL
1	A	219	GLU
1	A	252	LEU
1	A	308	ILE
1	A	328	ILE
1	A	330	ASN
1	B	53	LEU
1	B	113	ASP
1	B	118	SER
1	B	122	ASN
1	B	146	LEU
1	B	177	ILE
1	B	196	LEU

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Mol	Chain	Res	Type
1	B	216	VAL
1	B	219	GLU
1	B	234	MET
1	B	252	LEU
1	B	328	ILE
1	B	330	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (5) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	117	ASN
1	A	215	ASN
1	A	236	ASN
1	A	277	ASN
1	B	210	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 oligosaccharides 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	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	IDV	A	401	-	30,31,31	0.83	1 (3%)	40,46,46	1.01	5 (12%)
3	SO4	A	403	-	4,4,4	0.31	0	6,6,6	0.37	0
2	IDV	B	401	-	30,31,31	0.56	1 (3%)	40,46,46	0.73	0
3	SO4	A	402	-	4,4,4	0.24	0	6,6,6	0.37	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	IDV	A	401	-	-	4/23/25/25	0/4/4/4
2	IDV	B	401	-	-	10/23/25/25	0/4/4/4

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	401	IDV	C12-N3	3.77	1.35	1.32
2	B	401	IDV	C12-N3	2.53	1.34	1.32

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	401	IDV	N2-C12-N3	3.02	131.17	123.09
2	A	401	IDV	O1-S-N	2.70	111.44	107.13
2	A	401	IDV	O1-S-N1	2.26	112.79	106.46
2	A	401	IDV	C3-C2-N1	-2.13	115.54	120.02
2	A	401	IDV	C18-C17-C11	-2.03	120.90	122.52

There are no chirality outliers.

All (14) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	401	IDV	C2-N1-S-O2
2	A	401	IDV	C2-N1-S-O1
2	A	401	IDV	C2-N1-S-N
2	A	401	IDV	C11-C12-N2-C13
2	B	401	IDV	C2-N1-S-O2
2	B	401	IDV	C2-N1-S-O1
2	B	401	IDV	C2-N1-S-N

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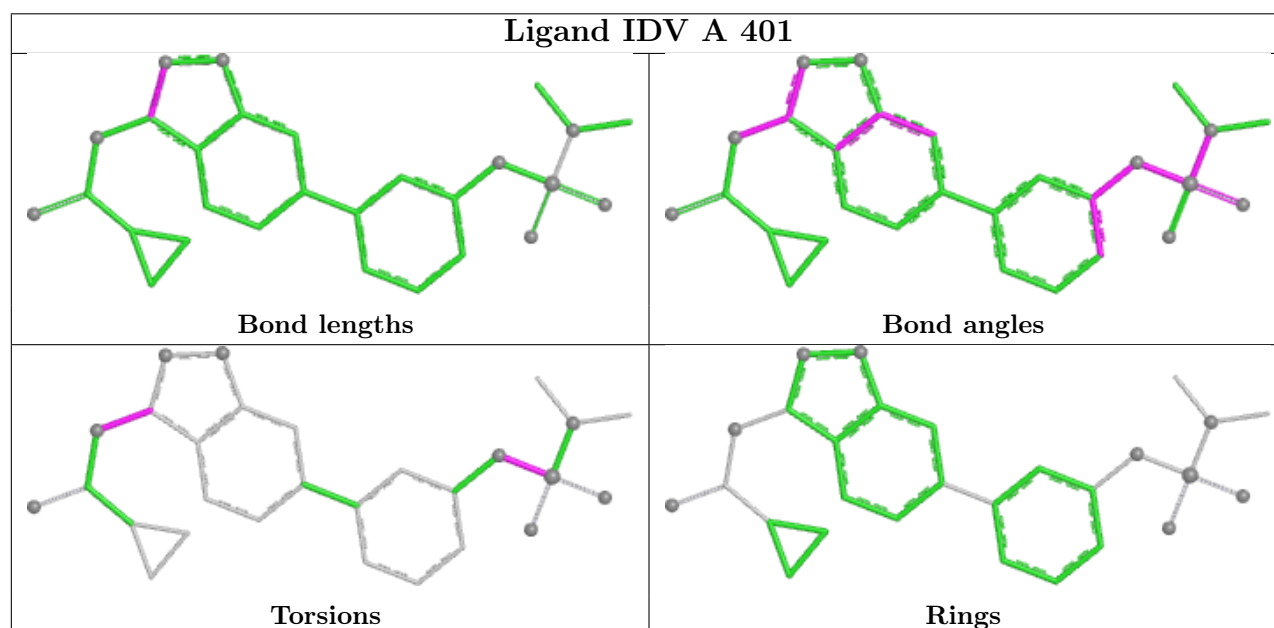
Mol	Chain	Res	Type	Atoms
2	B	401	IDV	C1-N-S-N1
2	B	401	IDV	C-N-S-N1
2	B	401	IDV	C1-N-S-O2
2	B	401	IDV	C1-N-S-O1
2	B	401	IDV	C-N-S-O1
2	B	401	IDV	N3-C12-N2-C13
2	B	401	IDV	C11-C12-N2-C13

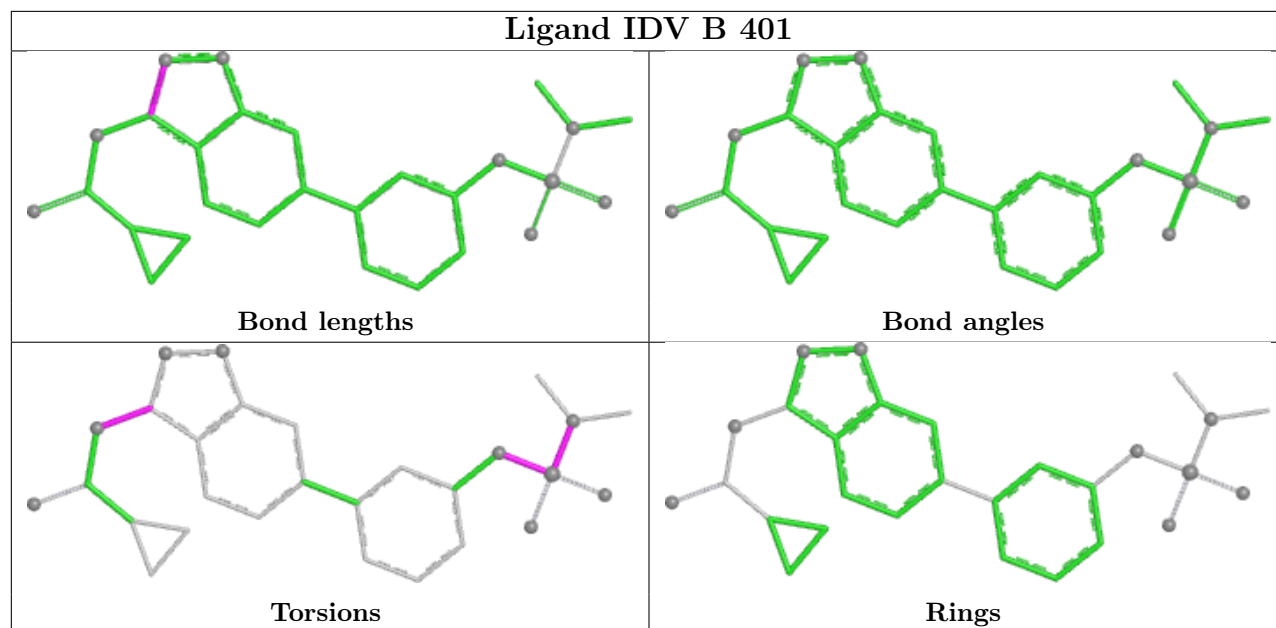
There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	401	IDV	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 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 [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	302/302 (100%)	-0.27	3 (0%) 79 76	41, 59, 90, 110	0
1	B	302/302 (100%)	0.02	1 (0%) 90 88	44, 69, 106, 126	0
All	All	604/604 (100%)	-0.13	4 (0%) 84 81	41, 63, 101, 126	0

All (4) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	62	PHE	4.5
1	A	343	ALA	3.2
1	B	60	GLY	2.4
1	A	121	ASP	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 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	IDV	B	401	28/28	0.89	0.11	53,67,97,98	0

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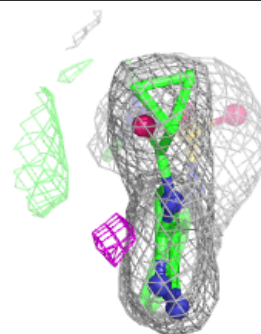
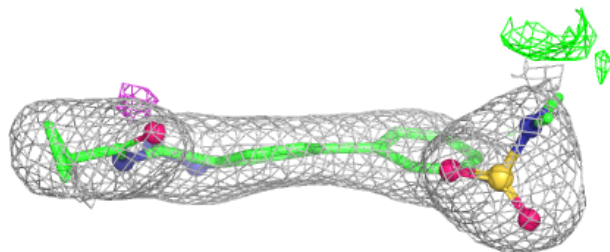
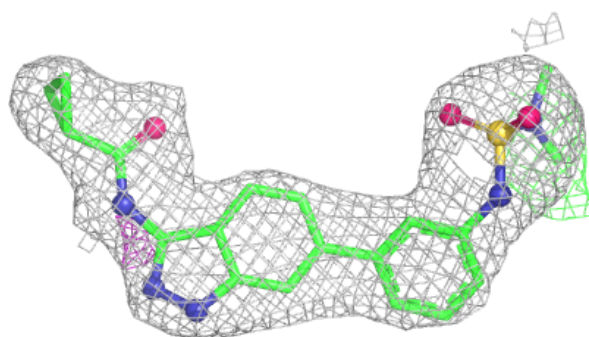
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
3	SO4	A	402	5/5	0.93	0.09	68,70,74,74	0
2	IDV	A	401	28/28	0.94	0.09	39,52,66,67	0
3	SO4	A	403	5/5	0.94	0.10	74,80,81,82	0

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.

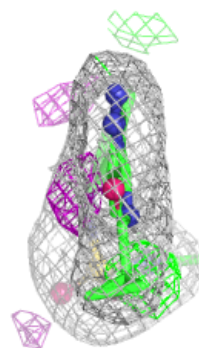
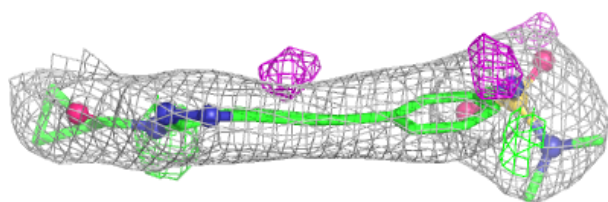
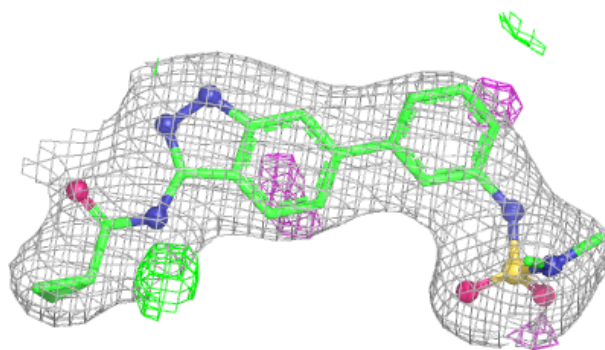
Electron density around IDV B 401:

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 IDV A 401:

$2mF_o - DF_c$ (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.