



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2026 – 12:37 PM UTC

PDB ID : 6XP9 / pdb_00006xp9
Title : STRUCTURE OF HUMAN PREGNANE X RECEPTOR LIGAND BINDING DOMAIN BOUND TETHERED WITH SRC co-activator peptide IN COMPLEX WITH (S,S)-1
Authors : Khan, J.A.
Deposited on : 2020-07-08
Resolution : 2.27 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)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

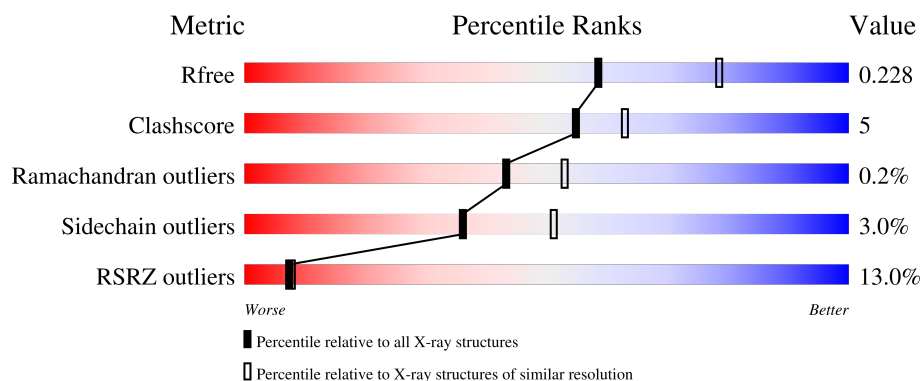
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.27 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	9078 (2.30-2.26)
Clashscore	190562	9802 (2.30-2.26)
Ramachandran outliers	187476	9690 (2.30-2.26)
Sidechain outliers	187428	9691 (2.30-2.26)
RSRZ outliers	180081	9085 (2.30-2.26)

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	351	11% 68% 7% 24%
1	B	351	9% 67% 9% 25%

2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 4525 atoms, of which 60 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 Nuclear receptor subfamily 1 group I member 2,Nuclear receptor coactivator 1 fusion.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	266	Total	C	N	O	S	0	3	0
			2120	1369	361	372	18			
1	B	265	Total	C	N	O	S	0	1	0
			2097	1360	348	373	16			

There are 26 discrepancies between the modelled and reference sequences:

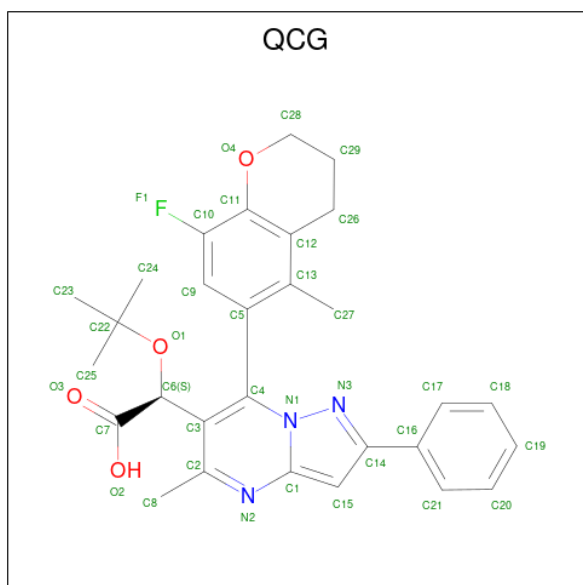
Chain	Residue	Modelled	Actual	Comment	Reference
A	123	HIS	-	expression tag	UNP O75469
A	124	HIS	-	expression tag	UNP O75469
A	125	HIS	-	expression tag	UNP O75469
A	126	HIS	-	expression tag	UNP O75469
A	127	HIS	-	expression tag	UNP O75469
A	128	HIS	-	expression tag	UNP O75469
A	129	GLY	-	expression tag	UNP O75469
A	435	SER	-	linker	UNP O75469
A	436	GLY	-	linker	UNP O75469
A	437	GLY	-	linker	UNP O75469
A	438	SER	-	linker	UNP O75469
A	439	GLY	-	linker	UNP O75469
A	440	GLY	-	linker	UNP O75469
B	123	HIS	-	expression tag	UNP O75469
B	124	HIS	-	expression tag	UNP O75469
B	125	HIS	-	expression tag	UNP O75469
B	126	HIS	-	expression tag	UNP O75469
B	127	HIS	-	expression tag	UNP O75469
B	128	HIS	-	expression tag	UNP O75469
B	129	GLY	-	expression tag	UNP O75469
B	435	SER	-	linker	UNP O75469
B	436	GLY	-	linker	UNP O75469
B	437	GLY	-	linker	UNP O75469
B	438	SER	-	linker	UNP O75469

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Chain	Residue	Modelled	Actual	Comment	Reference
B	439	GLY	-	linker	UNP O75469
B	440	GLY	-	linker	UNP O75469

- Molecule 2 is (2S)-tert-butoxy[7-(8-fluoro-5-methyl-3,4-dihydro-2H-1-benzopyran-6-yl)-5-methyl-2-phenylpyrazolo[1,5-a]pyrimidin-6-yl]acetic acid (CCD ID: QCG) (formula: C₂₉H₃₀FN₃O₄) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms						ZeroOcc	AltConf
2	A	1	Total 67	C 29	F 1	H 30	N 3	O 4	30	0
2	B	1	Total 67	C 29	F 1	H 30	N 3	O 4	30	0

- Molecule 3 is GLYCEROL (CCD ID: GOL) (formula: C₃H₈O₃).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	B	1	Total	C	O	0	0
			6	3	3		

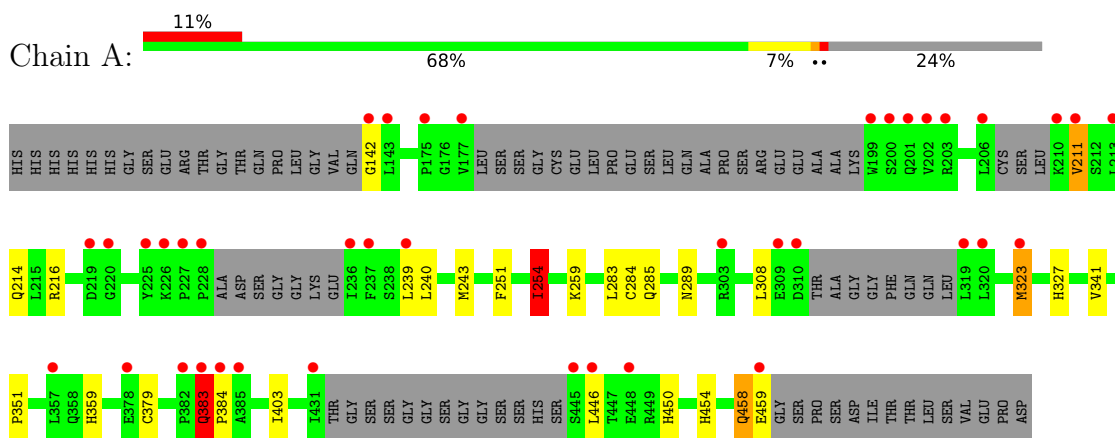
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	84	Total	O	0	0
			84	84		
4	B	84	Total	O	0	0
			84	84		

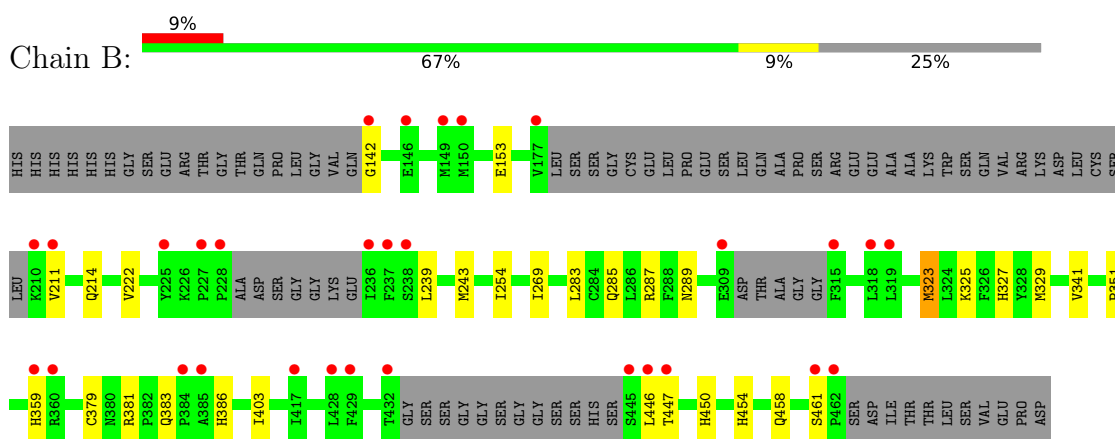
3 Residue-property plots [i](#)

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: Nuclear receptor subfamily 1 group I member 2, Nuclear receptor coactivator 1 fusion



- Molecule 1: Nuclear receptor subfamily 1 group I member 2, Nuclear receptor coactivator 1 fusion



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	85.03Å 88.61Å 105.86Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	44.94 – 2.27 44.94 – 2.27	Depositor EDS
% Data completeness (in resolution range)	99.9 (44.94-2.27) 99.9 (44.94-2.27)	Depositor EDS
R_{merge}	0.13	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.62 (at 2.27Å)	Xtriage
Refinement program	BUSTER 2.11.7 (17-DEC-2019)	Depositor
R, R_{free}	0.195 , 0.220 0.202 , 0.228	Depositor DCC
R_{free} test set	1879 reflections (4.99%)	wwPDB-VP
Wilson B-factor (Å ²)	47.6	Xtriage
Anisotropy	0.142	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 66.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	0.019 for k,h,-l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	4525	wwPDB-VP
Average B, all atoms (Å ²)	60.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.36% 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: QCG, GOL

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	0.73	2/2172 (0.1%)	1.01	0/2932
1	B	0.72	0/2147	0.97	0/2902
All	All	0.72	2/4319 (0.0%)	0.99	0/5834

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	383	GLN	CA-C	5.26	1.59	1.52
1	A	254	ILE	CG1-CD1	-5.07	1.31	1.51

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	2120	0	2041	19	0
1	B	2097	0	2038	21	0
2	A	37	30	0	0	0
2	B	37	30	0	1	0
3	B	6	0	8	0	0
4	A	84	0	0	0	0
4	B	84	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
All	All	4465	60	4087	40	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 (40) 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:285:GLN:HE21	1:B:327:HIS:HE1	1.31	0.79
1:B:239:LEU:HB2	1:B:243:MET:HE3	1.68	0.75
1:B:285:GLN:NE2	1:B:327:HIS:HE1	1.88	0.72
1:A:239:LEU:HB2	1:A:243:MET:HE3	1.72	0.71
1:A:285:GLN:NE2	1:A:323:MET:HE2	2.10	0.66
1:A:289:ASN:HD22	1:A:327:HIS:HD1	1.43	0.64
1:A:285:GLN:HE21	1:A:323:MET:HE2	1.63	0.62
1:B:289:ASN:HD22	1:B:327:HIS:HD2	1.49	0.61
1:B:285:GLN:HE21	1:B:327:HIS:CE1	2.17	0.61
1:B:142:GLY:N	1:B:379:CYS:HG	1.99	0.61
1:B:323:MET:HG2	1:B:403:ILE:HG21	1.84	0.60
1:B:289:ASN:HD22	1:B:327:HIS:CD2	2.23	0.56
1:B:254[A]:ILE:HD12	1:B:283:LEU:HB3	1.87	0.55
1:A:254:ILE:HG12	1:A:283:LEU:HB3	1.89	0.54
1:A:254:ILE:HD13	1:A:284[B]:CYS:SG	2.47	0.54
1:B:351:PRO:O	1:B:359:HIS:HD2	1.89	0.54
1:A:251:PHE:CD1	1:A:284[B]:CYS:SG	3.01	0.53
1:A:142:GLY:N	1:A:379[B]:CYS:HG	2.07	0.53
1:B:214:GLN:HG3	1:B:222:VAL:HG13	1.90	0.53
1:B:454:HIS:O	1:B:458:GLN:HG3	2.09	0.53
1:A:323:MET:HE3	1:A:327:HIS:CD2	2.44	0.52
1:B:446:LEU:O	1:B:450:HIS:HD2	1.92	0.52
1:A:446:LEU:O	1:A:450:HIS:HD2	1.93	0.52
1:B:254[A]:ILE:HD11	1:B:287:ARG:HD2	1.92	0.52
1:B:243:MET:HE2	2:B:502:QCG:C15	2.41	0.51
1:A:239:LEU:CB	1:A:243:MET:HE3	2.43	0.48
1:B:269:ILE:HD13	1:B:454:HIS:ND1	2.29	0.48
1:B:285:GLN:NE2	1:B:327:HIS:CE1	2.77	0.47
1:A:323:MET:CE	1:A:327:HIS:CD2	2.98	0.47
1:B:325:LYS:NZ	1:B:329:MET:SD	2.87	0.46
1:A:351:PRO:HB2	1:A:359[A]:HIS:CD2	2.51	0.46
1:A:383:GLN:CB	1:A:384:PRO:HD3	2.46	0.45
1:A:211:VAL:HG12	1:A:308:LEU:HD23	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:454:HIS:O	1:A:458:GLN:HG2	2.19	0.43
1:A:323:MET:SD	1:A:403:ILE:HG21	2.58	0.43
1:B:239:LEU:CB	1:B:243:MET:HE3	2.46	0.43
1:A:214:GLN:HE21	1:A:216:ARG:HH11	1.67	0.42
1:B:383:GLN:HB2	1:B:386:HIS:CD2	2.55	0.42
1:A:259:LYS:NZ	1:A:459:GLU:C	2.79	0.41
1:B:323:MET:HG2	1:B:403:ILE:CG2	2.50	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	Favoured	Allowed	Outliers	Percentiles	
1	A	257/351 (73%)	252 (98%)	4 (2%)	1 (0%)	30	36
1	B	256/351 (73%)	253 (99%)	3 (1%)	0	100	100
All	All	513/702 (73%)	505 (98%)	7 (1%)	1 (0%)	43	53

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	383	GLN

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	220/310 (71%)	214 (97%)	6 (3%)	39	55
1	B	221/310 (71%)	214 (97%)	7 (3%)	34	49
All	All	441/620 (71%)	428 (97%)	13 (3%)	36	52

All (13) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	211	VAL
1	A	240	LEU
1	A	254	ILE
1	A	323	MET
1	A	341	VAL
1	A	458	GLN
1	B	153	GLU
1	B	211	VAL
1	B	323	MET
1	B	341	VAL
1	B	381	ARG
1	B	447	THR
1	B	461	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (13) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	214	GLN
1	A	272	GLN
1	A	285	GLN
1	A	289	ASN
1	A	406	GLN
1	A	450	HIS
1	A	458	GLN
1	B	272	GLN
1	B	289	ASN
1	B	327	HIS
1	B	359	HIS
1	B	386	HIS
1	B	450	HIS

5.3.3 RNA ⓘ

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](#)

3 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	QCG	B	502	-	39,41,41	0.44	1 (2%)	49,62,62	0.86	3 (6%)
3	GOL	B	501	-	5,5,5	0.06	0	5,5,5	0.10	0
2	QCG	A	501	-	39,41,41	0.44	1 (2%)	49,62,62	0.86	2 (4%)

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	QCG	B	502	-	-	3/21/28/28	0/5/5/5
3	GOL	B	501	-	-	0/4/4/4	-
2	QCG	A	501	-	-	4/21/28/28	0/5/5/5

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	501	QCG	C4-C3	2.27	1.39	1.36
2	B	502	QCG	C4-C3	2.10	1.39	1.36

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	501	QCG	C3-C2-N2	-3.12	121.28	123.42
2	A	501	QCG	C1-N2-C2	2.90	119.16	117.57
2	B	502	QCG	C3-C2-N2	-2.74	121.54	123.42
2	B	502	QCG	C1-N2-C2	2.57	118.98	117.57
2	B	502	QCG	C5-C4-N1	-2.57	115.17	118.63

There are no chirality outliers.

All (7) torsion outliers are listed below:

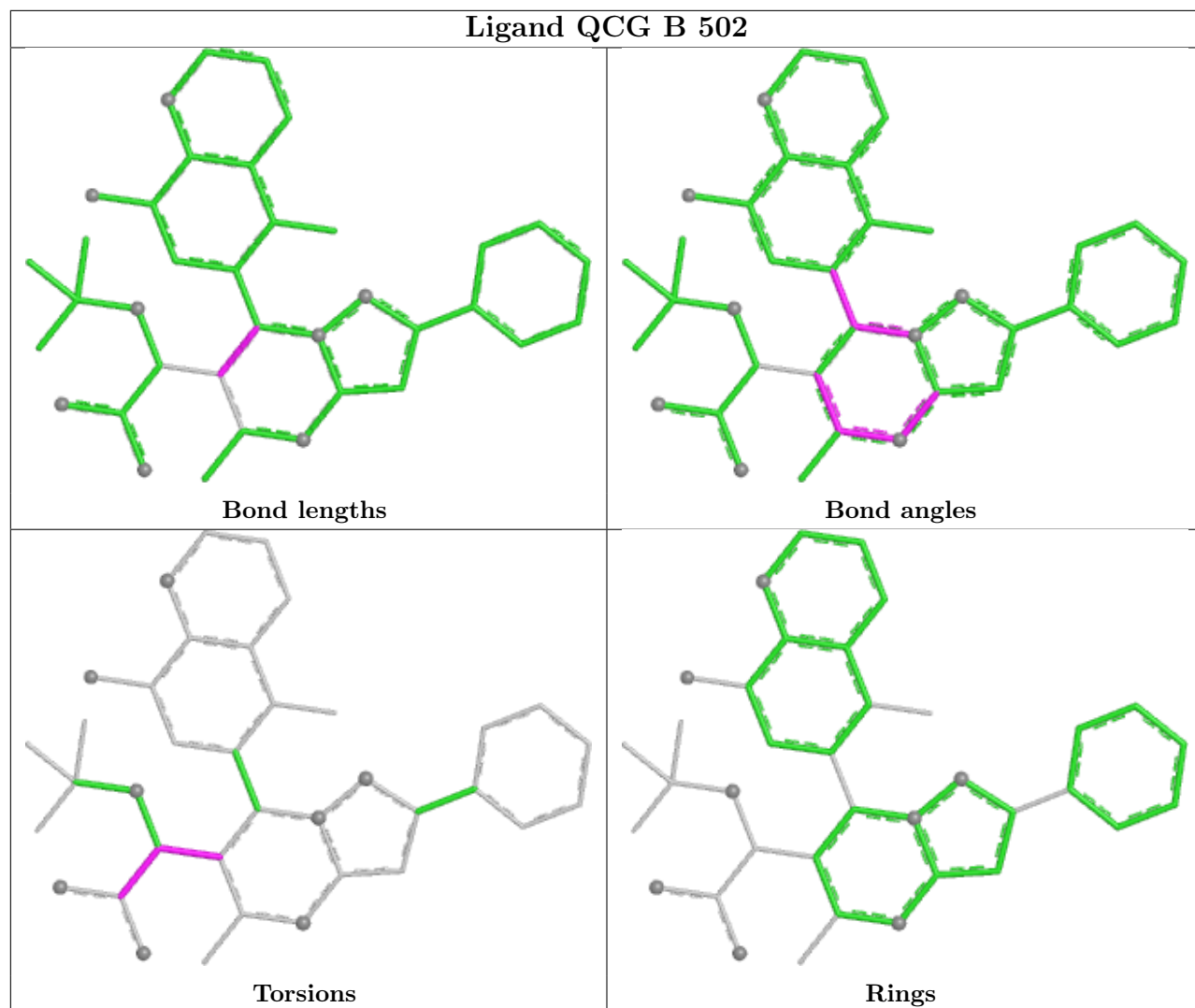
Mol	Chain	Res	Type	Atoms
2	A	501	QCG	C2-C3-C6-C7
2	A	501	QCG	C2-C3-C6-O1
2	B	502	QCG	C4-C3-C6-O1
2	B	502	QCG	C3-C6-C7-O3
2	A	501	QCG	C4-C3-C6-C7
2	A	501	QCG	C4-C3-C6-O1
2	B	502	QCG	C4-C3-C6-C7

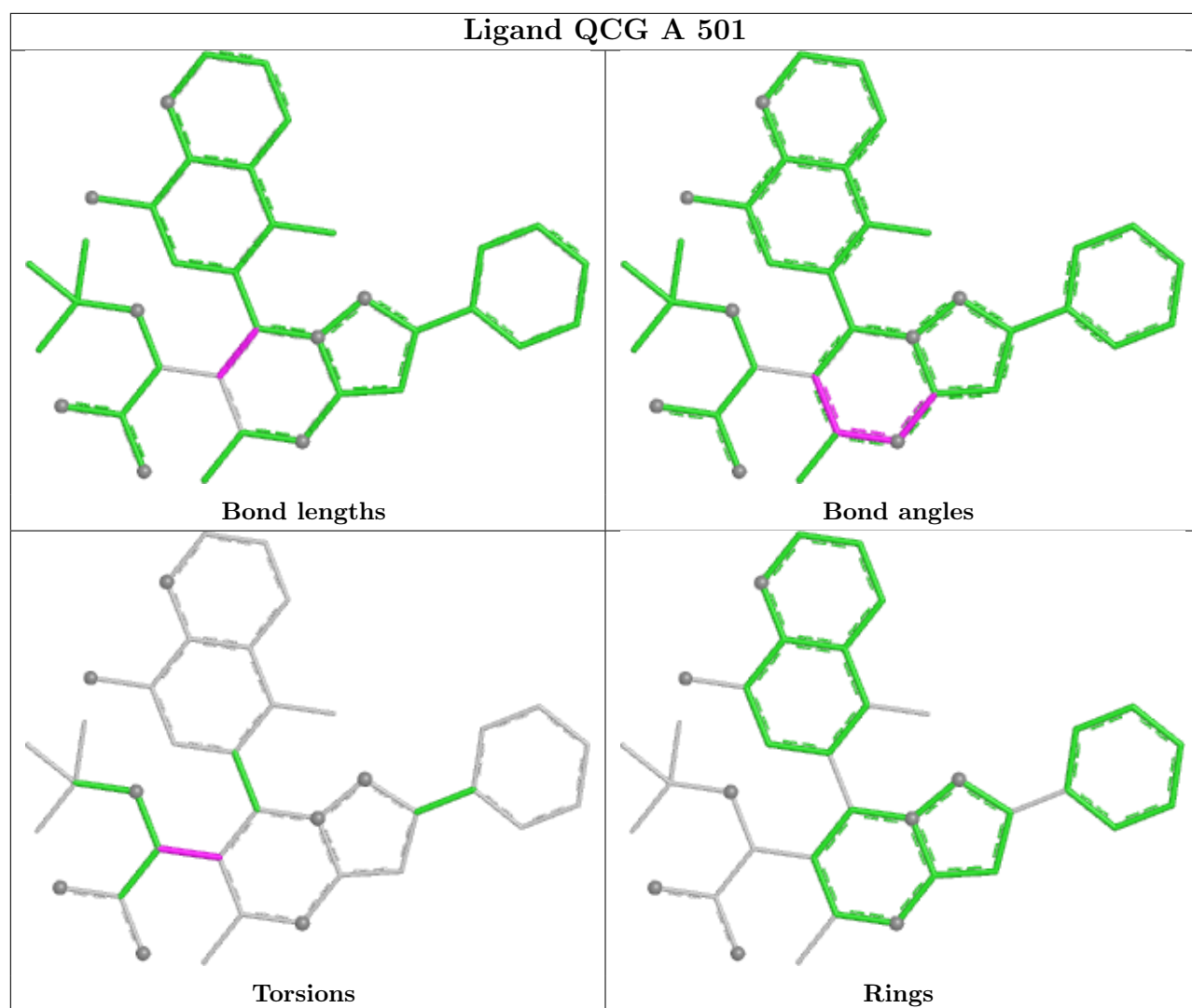
There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	B	502	QCG	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

6.1 Protein, DNA and RNA chains

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	266/351 (75%)	0.71	39 (14%) 6 6	19, 59, 90, 118	3 (1%)
1	B	265/351 (75%)	0.62	30 (11%) 10 10	25, 58, 87, 103	1 (0%)
All	All	531/702 (75%)	0.66	69 (12%) 7 8	19, 59, 90, 118	4 (0%)

All (69) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	199	TRP	5.4
1	A	236	ILE	5.0
1	B	177	VAL	5.0
1	B	236	ILE	4.6
1	B	228	PRO	4.4
1	A	206	LEU	4.4
1	B	462	PRO	4.3
1	A	310	ASP	3.9
1	A	202	VAL	3.8
1	A	431	ILE	3.8
1	A	383	GLN	3.8
1	B	319	LEU	3.7
1	A	200	SER	3.7
1	B	318	LEU	3.6
1	A	227	PRO	3.6
1	A	448	GLU	3.5
1	B	309	GLU	3.4
1	A	203	ARG	3.4
1	B	432	THR	3.3
1	B	237	PHE	3.3
1	A	219	ASP	3.2
1	A	319	LEU	3.2
1	A	445	SER	3.1
1	B	315	PHE	3.1

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Mol	Chain	Res	Type	RSRZ
1	B	227	PRO	3.1
1	A	211	VAL	3.0
1	A	323	MET	3.0
1	B	461	SER	3.0
1	B	385	ALA	2.9
1	B	142	GLY	2.8
1	A	384	PRO	2.8
1	A	201	GLN	2.8
1	B	384	PRO	2.8
1	A	225	TYR	2.8
1	A	446	LEU	2.8
1	A	385	ALA	2.8
1	A	220	GLY	2.8
1	A	175	PRO	2.8
1	A	320	LEU	2.8
1	A	228	PRO	2.7
1	A	382	PRO	2.7
1	B	146	GLU	2.6
1	B	238	SER	2.5
1	B	445	SER	2.5
1	A	357	LEU	2.5
1	B	359	HIS	2.5
1	A	143	LEU	2.4
1	A	303	ARG	2.4
1	B	210	LYS	2.4
1	B	360	ARG	2.4
1	A	459	GLU	2.3
1	B	417	ILE	2.3
1	B	225	TYR	2.3
1	A	213	LEU	2.2
1	B	428	LEU	2.2
1	B	150	MET	2.2
1	A	237	PHE	2.2
1	B	447	THR	2.2
1	A	239	LEU	2.2
1	A	177	VAL	2.2
1	B	211	VAL	2.2
1	B	149	MET	2.1
1	B	446	LEU	2.1
1	B	429	PHE	2.1
1	A	210	LYS	2.1
1	A	226	LYS	2.1

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Mol	Chain	Res	Type	RSRZ
1	A	142	GLY	2.1
1	A	378	GLU	2.0
1	A	309	GLU	2.0

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 oligosaccharides in this entry.

6.4 Ligands [i](#)

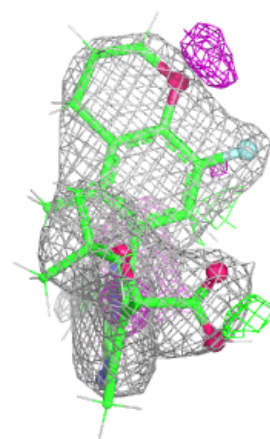
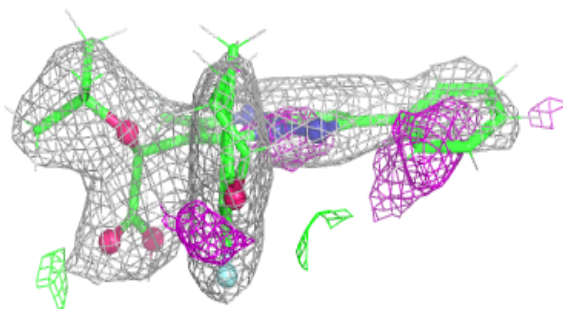
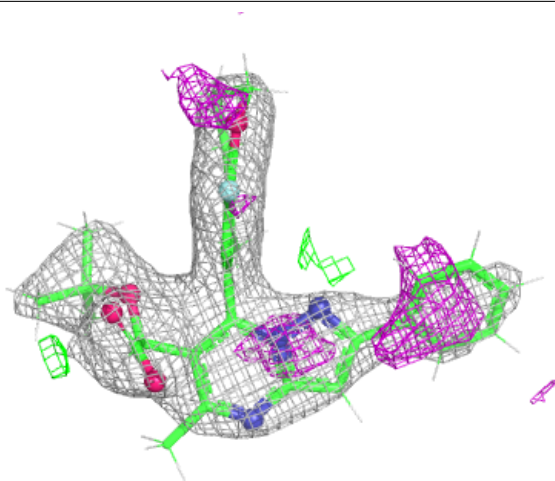
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists 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	QCG	B	502	37/37	0.87	0.14	61,69,88,93	30
3	GOL	B	501	6/6	0.88	0.23	93,94,94,95	0
2	QCG	A	501	37/37	0.89	0.13	60,68,83,89	30

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.

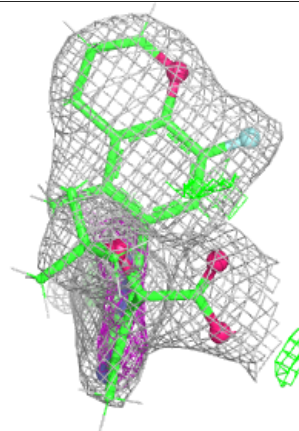
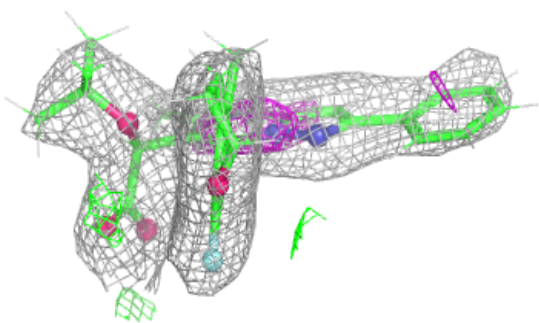
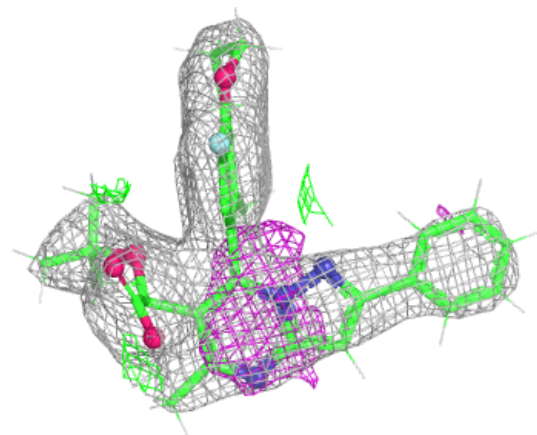
Electron density around QCG B 502:

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



Electron density around QCG A 501:

$2mF_o-DF_c$ (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.