



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 10, 2026 – 08:49 AM UTC

PDB ID : 5ZKP / pdb_00005zkp
Title : Crystal structure of the human platelet-activating factor receptor in complex with SR 27417
Authors : Cao, C.; Zhao, Q.; Zhang, X.C.; Wu, B.
Deposited on : 2018-03-25
Resolution : 2.81 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

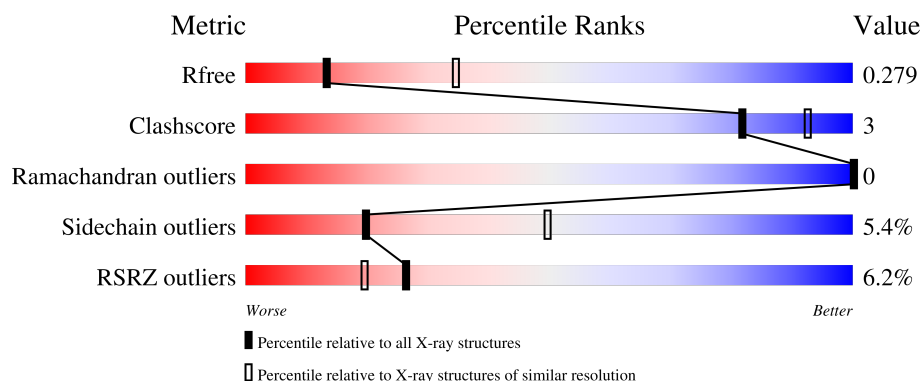
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.81 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	4591 (2.84-2.80)
Clashscore	190562	5010 (2.84-2.80)
Ramachandran outliers	187476	4916 (2.84-2.80)
Sidechain outliers	187428	4918 (2.84-2.80)
RSRZ outliers	180081	4594 (2.84-2.80)

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	466	

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 3455 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.

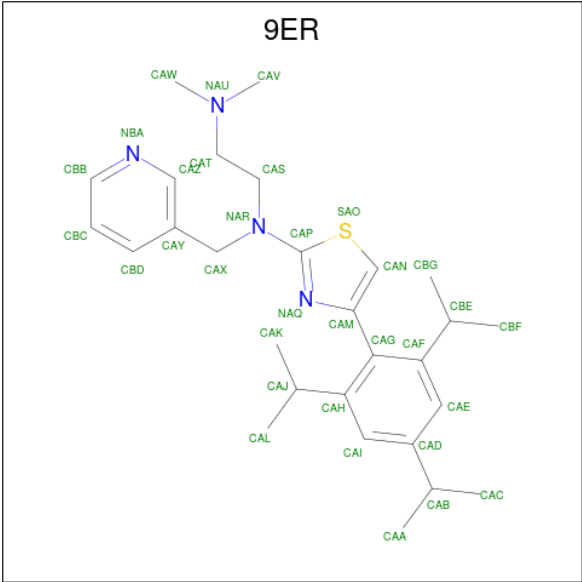
- Molecule 1 is a protein called Platelet-activating factor receptor, Flavodoxin, Platelet-activating factor receptor.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	436	Total	C	N	O	S	0	1	0
			3391	2218	543	608	22			

There are 18 discrepancies between the modelled and reference sequences:

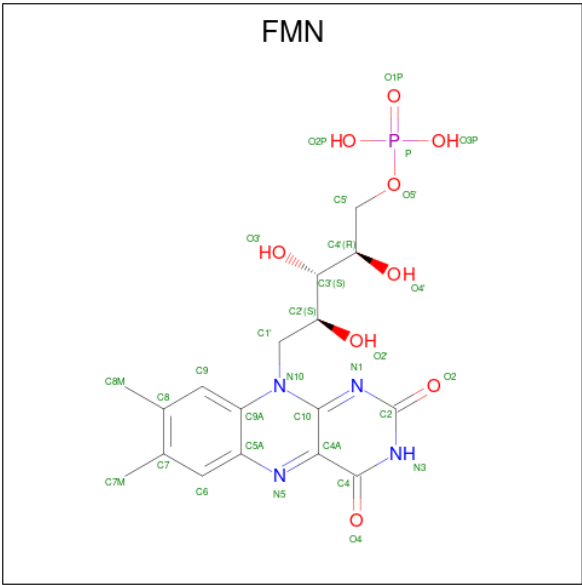
Chain	Residue	Modelled	Actual	Comment	Reference
A	-1	GLY	-	expression tag	UNP P25105
A	0	ALA	-	expression tag	UNP P25105
A	1	PRO	-	expression tag	UNP P25105
A	116	TYR	PHE	engineered mutation	UNP P25105
A	169	ASP	ASN	engineered mutation	UNP P25105
A	1001	ALA	PRO	engineered mutation	UNP P00323
A	1097	TRP	TYR	engineered mutation	UNP P00323
A	230	ASP	ALA	engineered mutation	UNP P25105
A	234	ALA	VAL	engineered mutation	UNP P25105
A	289	ASN	ASP	engineered mutation	UNP P25105
A	317	GLU	-	expression tag	UNP P25105
A	318	PHE	-	expression tag	UNP P25105
A	319	LEU	-	expression tag	UNP P25105
A	320	GLU	-	expression tag	UNP P25105
A	321	VAL	-	expression tag	UNP P25105
A	322	LEU	-	expression tag	UNP P25105
A	323	PHE	-	expression tag	UNP P25105
A	324	GLN	-	expression tag	UNP P25105

- Molecule 2 is N1,N1-dimethyl-N2-[(pyridin-3-yl)methyl]-N2-{4-[2,4,6-tri(propan-2-yl)phenyl]-1,3-thiazol-2-yl}ethane-1,2-diamine (CCD ID: 9ER) (formula: C₂₈H₄₀N₄S).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	A	1	Total	C	N	S	0	0
			33	28	4	1		

- Molecule 3 is FLAVIN MONONUCLEOTIDE (CCD ID: FMN) (formula: C₁₇H₂₁N₄O₉P).

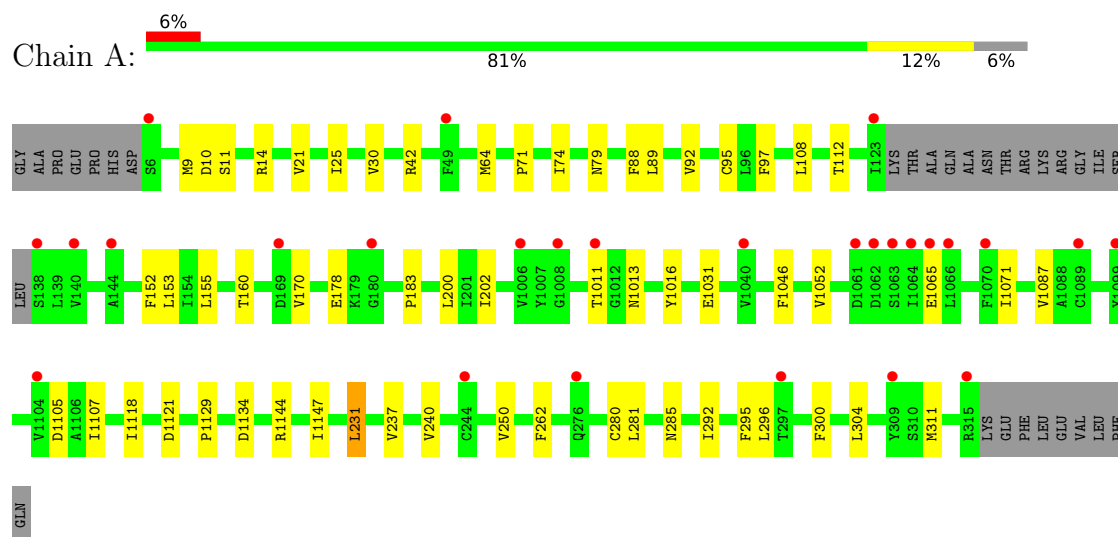


Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	N	O	P	0
			31	17	4	9	1	

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: Platelet-activating factor receptor,Flavodoxin,Platelet-activating factor receptor



4 Data and refinement statistics

Property	Value	Source
Space group	P 32 2 1	Depositor
Cell constants a, b, c, α , β , γ	67.05Å 67.05Å 280.25Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	30.00 – 2.81 30.00 – 2.81	Depositor EDS
% Data completeness (in resolution range)	93.5 (30.00-2.81) 93.4 (30.00-2.81)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.70 (at 2.80Å)	Xtriage
Refinement program	BUSTER 2.10.3	Depositor
R, R_{free}	0.222 , 0.259 0.250 , 0.279	Depositor DCC
R_{free} test set	887 reflections (5.07%)	wwPDB-VP
Wilson B-factor (Å ²)	75.3	Xtriage
Anisotropy	0.058	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.29 , 83.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.46$, $\langle L^2 \rangle = 0.29$	Xtriage
Estimated twinning fraction	0.059 for -h,-k,l	Xtriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	3455	wwPDB-VP
Average B, all atoms (Å ²)	105.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.91% 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: 9ER, FMN

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	2/3479 (0.1%)	1.45	19/4745 (0.4%)

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	1071	ILE	CA-C	5.15	1.57	1.52
1	A	1071	ILE	CA-CB	5.02	1.57	1.54

All (19) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	295	PHE	CA-CB-CG	7.21	121.01	113.80
1	A	250	VAL	CA-C-N	6.31	129.11	120.46
1	A	250	VAL	C-N-CA	6.31	129.11	120.46
1	A	285	ASN	CA-C-N	6.17	130.07	120.82
1	A	285	ASN	C-N-CA	6.17	130.07	120.82
1	A	1134	ASP	CA-CB-CG	6.05	118.65	112.60
1	A	300	PHE	CA-C-N	5.67	128.68	120.79
1	A	300	PHE	C-N-CA	5.67	128.68	120.79
1	A	183	PRO	CA-C-N	5.61	128.12	120.77
1	A	183	PRO	C-N-CA	5.61	128.12	120.77
1	A	1046	PHE	CA-CB-CG	5.31	119.11	113.80
1	A	262	PHE	CA-CB-CG	5.28	119.08	113.80
1	A	97	PHE	CA-C-N	5.19	127.18	120.44
1	A	97	PHE	C-N-CA	5.19	127.18	120.44
1	A	231	LEU	CA-C-N	5.15	127.18	120.28
1	A	231	LEU	C-N-CA	5.15	127.18	120.28
1	A	250	VAL	N-CA-C	-5.09	105.88	110.82
1	A	79	ASN	CA-C-N	5.00	129.25	122.19
1	A	79	ASN	C-N-CA	5.00	129.25	122.19

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	3391	0	3293	17	0
2	A	33	0	0	0	0
3	A	31	0	19	1	0
All	All	3455	0	3312	17	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 3.

All (17) 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:108:LEU:HD21	1:A:292:ILE:HD13	1.72	0.71
1:A:296:LEU:HG	1:A:304:LEU:HD11	1.78	0.66
1:A:240:VAL:HG21	1:A:292:ILE:HD11	1.81	0.62
1:A:1144:ARG:O	1:A:1147:ILE:HG13	2.09	0.53
1:A:21:VAL:HG11	1:A:280:CYS:HB2	1.91	0.51
1:A:1052:VAL:HB	1:A:1087:VAL:HG12	1.93	0.49
1:A:1016:TYR:HD2	1:A:1129:PRO:HB2	1.77	0.49
1:A:152:PHE:HA	1:A:155:LEU:HD12	1.96	0.48
1:A:1016:TYR:CD2	1:A:1129:PRO:HB2	2.51	0.46
1:A:88:PHE:O	1:A:92:VAL:HG23	2.15	0.46
1:A:112:THR:OG1	1:A:237:VAL:HG11	2.18	0.44
1:A:30:VAL:HG22	1:A:64:MET:HE1	2.00	0.43
1:A:11:SER:O	1:A:14:ARG:HG2	2.18	0.43
1:A:71:PRO:HA	1:A:74:ILE:HD12	2.02	0.41
1:A:1013:ASN:HD22	3:A:1202:FMN:H5'1	1.85	0.41
1:A:1087:VAL:HG23	1:A:1118:ILE:HG13	2.03	0.41
1:A:9:MET:HE3	1:A:10:ASP:N	2.36	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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	433/466 (93%)	407 (94%)	26 (6%)	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	356/399 (89%)	337 (95%)	19 (5%)	20	50

All (19) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	25	ILE
1	A	42	ARG
1	A	89	LEU
1	A	95	CYS
1	A	153	LEU
1	A	160	THR
1	A	170	VAL
1	A	178	GLU
1	A	200	LEU
1	A	202	ILE
1	A	1011	THR
1	A	1031	GLU
1	A	1065	GLU

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Mol	Chain	Res	Type
1	A	1105	ASP
1	A	1107	ILE
1	A	1121	ASP
1	A	231	LEU
1	A	281	LEU
1	A	311	MET

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	114	ASN
1	A	1113	ASN

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](#)

2 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	9ER	A	1201	-	35,35,35	3.14	11 (31%)	46,49,49	2.14	15 (32%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	FMN	A	1202	-	33,33,33	1.90	6 (18%)	48,50,50	1.35	8 (16%)

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	9ER	A	1201	-	-	7/29/29/29	0/3/3/3
3	FMN	A	1202	-	-	12/18/18/18	0/3/3/3

All (17) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	1201	9ER	CAG-CAM	-10.07	1.35	1.48
2	A	1201	9ER	CAH-CAJ	-7.39	1.41	1.52
2	A	1201	9ER	CAF-CBE	-6.65	1.42	1.52
2	A	1201	9ER	CAX-CAY	-6.46	1.39	1.51
3	A	1202	FMN	C7M-C7	-5.74	1.40	1.51
3	A	1202	FMN	C8M-C8	-5.72	1.40	1.51
2	A	1201	9ER	CAD-CAB	-4.98	1.41	1.53
2	A	1201	9ER	CAP-SAO	-4.82	1.64	1.74
3	A	1202	FMN	C10-N1	4.28	1.41	1.33
2	A	1201	9ER	CAZ-NBA	3.32	1.41	1.34
2	A	1201	9ER	CAX-NAR	3.01	1.51	1.46
2	A	1201	9ER	CBB-NBA	2.60	1.41	1.33
3	A	1202	FMN	C5A-N5	-2.56	1.34	1.39
2	A	1201	9ER	CAM-NAQ	-2.40	1.35	1.39
2	A	1201	9ER	CAN-SAO	-2.27	1.66	1.71
3	A	1202	FMN	C9A-N10	-2.19	1.37	1.41
3	A	1202	FMN	C4A-N5	2.12	1.35	1.30

All (23) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	1201	9ER	SAO-CAP-NAQ	-6.58	108.13	116.28
2	A	1201	9ER	SAO-CAP-NAR	5.40	128.17	120.41
2	A	1201	9ER	CAN-SAO-CAP	4.12	96.42	89.41
2	A	1201	9ER	CAM-CAN-SAO	-4.10	106.19	111.16
2	A	1201	9ER	CAG-CAH-CAJ	3.59	128.91	121.62
2	A	1201	9ER	CAI-CAH-CAJ	-3.53	111.70	118.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	1201	9ER	CAL-CAJ-CAK	3.35	117.15	110.23
2	A	1201	9ER	CAL-CAJ-CAH	3.09	117.04	111.71
3	A	1202	FMN	O5'-P-O1P	2.89	114.25	106.44
3	A	1202	FMN	C4-N3-C2	-2.89	120.51	125.64
3	A	1202	FMN	C10-C4A-N5	-2.69	119.32	124.81
2	A	1201	9ER	CAK-CAJ-CAH	2.59	116.18	111.71
2	A	1201	9ER	CAP-NAQ-CAM	2.54	113.96	106.26
3	A	1202	FMN	C4A-C10-N10	2.51	120.08	116.48
3	A	1202	FMN	C4A-C4-N3	2.44	119.47	113.25
3	A	1202	FMN	C4A-C10-N1	-2.23	119.12	124.59
2	A	1201	9ER	CAY-CAZ-NBA	-2.22	119.50	123.75
3	A	1202	FMN	C9A-C5A-N5	-2.21	120.11	122.45
3	A	1202	FMN	C4-C4A-C10	2.11	120.56	116.93
2	A	1201	9ER	CBB-NBA-CAZ	2.10	120.53	116.85
2	A	1201	9ER	CBD-CAY-CAZ	2.07	120.14	117.10
2	A	1201	9ER	CAI-CAD-CAB	-2.06	115.88	121.03
2	A	1201	9ER	CAE-CAD-CAB	2.02	126.08	121.03

There are no chirality outliers.

All (19) torsion outliers are listed below:

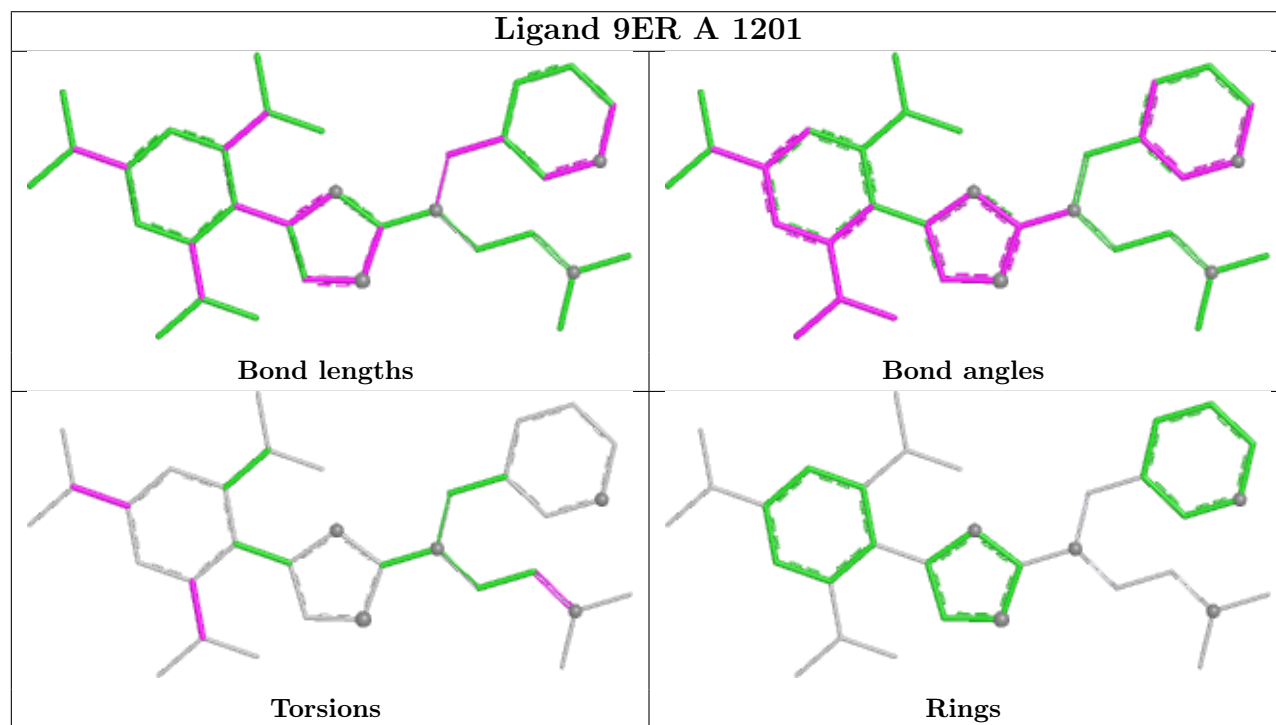
Mol	Chain	Res	Type	Atoms
3	A	1202	FMN	C1'-C2'-C3'-O3'
3	A	1202	FMN	C1'-C2'-C3'-C4'
3	A	1202	FMN	C2'-C3'-C4'-C5'
3	A	1202	FMN	O3'-C3'-C4'-C5'
3	A	1202	FMN	C3'-C4'-C5'-O5'
3	A	1202	FMN	O4'-C4'-C5'-O5'
3	A	1202	FMN	C5'-O5'-P-O1P
3	A	1202	FMN	C5'-O5'-P-O3P
3	A	1202	FMN	O2'-C2'-C3'-C4'
3	A	1202	FMN	C2'-C3'-C4'-O4'
3	A	1202	FMN	O3'-C3'-C4'-O4'
3	A	1202	FMN	O2'-C2'-C3'-O3'
2	A	1201	9ER	CAS-CAT-NAU-CAV
2	A	1201	9ER	CAS-CAT-NAU-CAW
2	A	1201	9ER	CAG-CAH-CAJ-CAK
2	A	1201	9ER	CAI-CAH-CAJ-CAL
2	A	1201	9ER	CAI-CAH-CAJ-CAK
2	A	1201	9ER	CAG-CAH-CAJ-CAL
2	A	1201	9ER	CAC-CAB-CAD-CAE

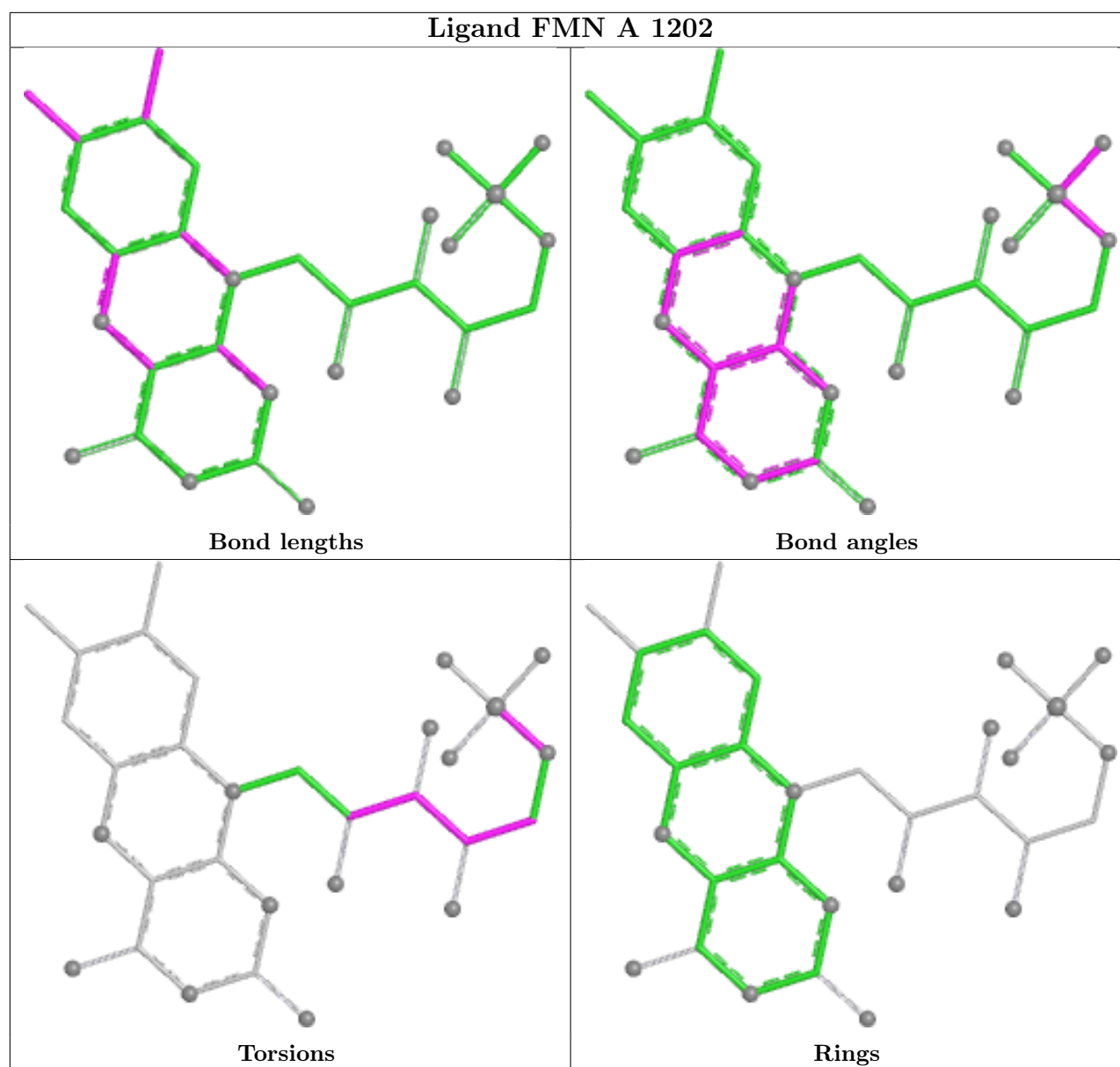
There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	1202	FMN	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	436/466 (93%)	0.54	27 (6%) 26 19	51, 100, 151, 172	1 (0%)

All (27) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	1063	SER	4.9
1	A	276	GLN	3.7
1	A	1065	GLU	3.4
1	A	1062	ASP	3.3
1	A	1061	ASP	3.3
1	A	309	TYR	3.1
1	A	1040	VAL	3.0
1	A	123	ILE	3.0
1	A	169	ASP	2.9
1	A	1066	LEU	2.7
1	A	49	PHE	2.7
1	A	1064	ILE	2.7
1	A	1011	THR	2.6
1	A	1008	GLY	2.6
1	A	1089	CYS	2.5
1	A	244	CYS	2.5
1	A	315	ARG	2.4
1	A	6	SER	2.4
1	A	297	THR	2.3
1	A	140	VAL	2.3
1	A	1104	VAL	2.2
1	A	1070	PHE	2.2
1	A	1006	VAL	2.2
1	A	1099	TYR	2.2
1	A	138	SER	2.2
1	A	180	GLY	2.0
1	A	144	ALA	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](#)

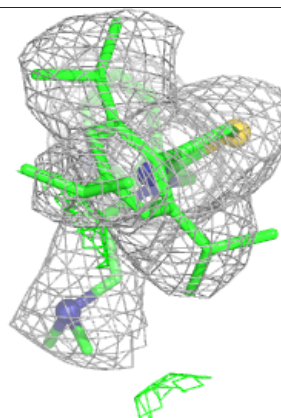
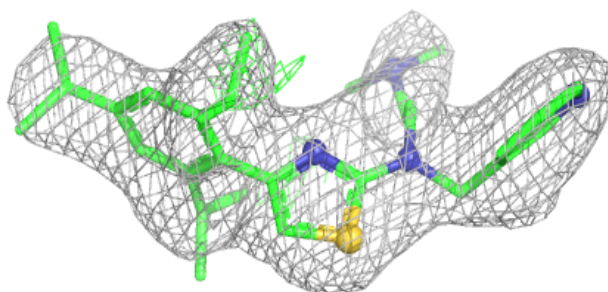
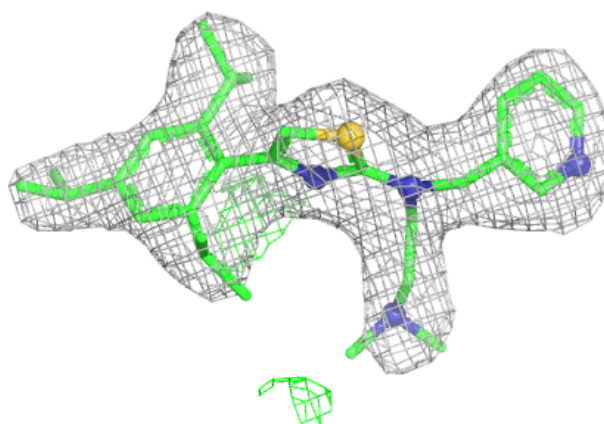
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	9ER	A	1201	33/33	0.94	0.12	61,77,82,84	0
3	FMN	A	1202	31/31	0.95	0.10	99,132,137,139	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.

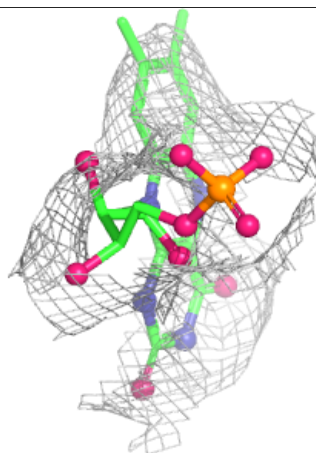
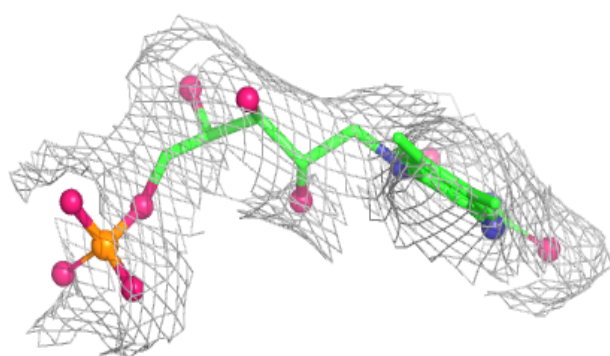
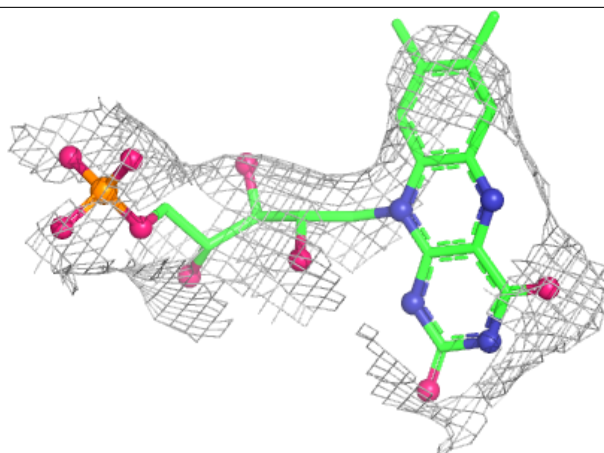
Electron density around 9ER A 1201:

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



Electron density around FMN A 1202:

$2mF_o-DF_c$ (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.