



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 6, 2026 – 01:18 PM UTC

PDB ID : 7QJG / pdb_00007qjg
Title : EED in complex with PRC2 allosteric inhibitor compound 6
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Deposited on : 2021-12-16
Resolution : 1.80 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

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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

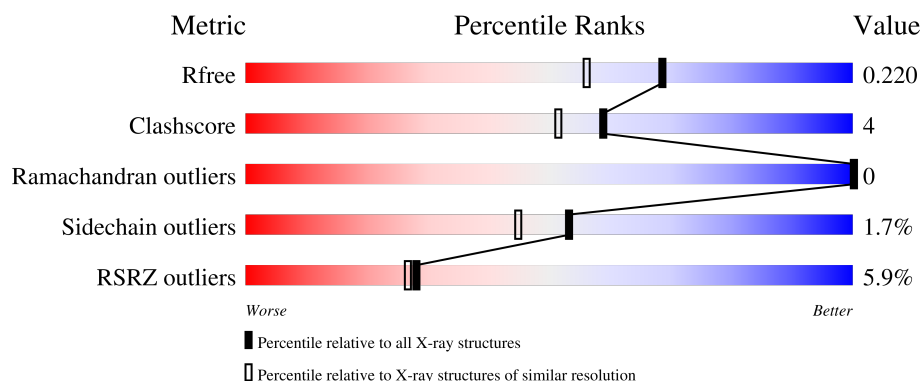
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.80 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	7662 (1.80-1.80)
Clashscore	190562	8479 (1.80-1.80)
Ramachandran outliers	187476	8391 (1.80-1.80)
Sidechain outliers	187428	8390 (1.80-1.80)
RSRZ outliers	180081	7663 (1.80-1.80)

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	366	4% 89% 10% ..
1	B	366	5% 86% 11% .
2	C	29	14% 90% 7% .
2	D	29	21% 97% .

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 6799 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 Polycomb protein EED.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	364	Total	C	N	O	S	0	2	0
			2951	1868	517	544	22			
1	B	357	Total	C	N	O	S	0	0	0
			2878	1826	501	529	22			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	76	GLY	-	expression tag	UNP O75530
B	76	GLY	-	expression tag	UNP O75530

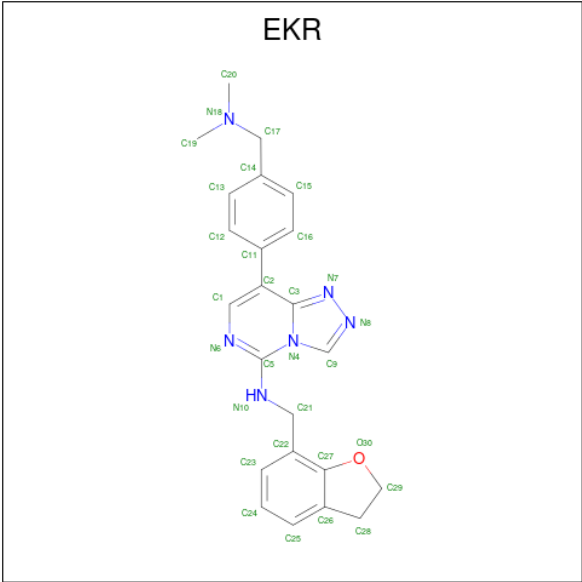
- Molecule 2 is a protein called Histone-lysine N-methyltransferase EZH2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	C	29	Total	C	N	O	S	0	0	0
			254	157	50	46	1			
2	D	29	Total	C	N	O	S	0	0	0
			254	157	50	46	1			

- Molecule 3 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	2	Total	Cl	0	0
			2	2		
3	B	2	Total	Cl	0	0
			2	2		

- Molecule 4 is N-(2,3-dihydro-1-benzofuran-7-ylmethyl)-8-[4-[(dimethylamino)methyl]phenyl]-[1,2,4]triazolo[4,3-c]pyrimidin-5-amine (CCD ID: EKR) (formula: C₂₃H₂₄N₆O) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	A	1	Total	C	N	O	0	0
			30	23	6	1		
4	B	1	Total	C	N	O	0	0
			30	23	6	1		

- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	197	Total	O	0	0
			197	197		
5	B	179	Total	O	0	0
			179	179		
5	C	13	Total	O	0	0
			13	13		
5	D	9	Total	O	0	0
			9	9		

4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, α , β , γ	93.46Å 178.45Å 50.50Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	46.73 – 1.80 46.73 – 1.80	Depositor EDS
% Data completeness (in resolution range)	77.7 (46.73-1.80) 77.6 (46.73-1.80)	Depositor EDS
R_{merge}	0.13	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.34 (at 1.79Å)	Xtriage
Refinement program	BUSTER 2.11.7	Depositor
R, R_{free}	0.187 , 0.218 0.190 , 0.220	Depositor DCC
R_{free} test set	3097 reflections (5.03%)	wwPDB-VP
Wilson B-factor (Å ²)	21.1	Xtriage
Anisotropy	0.099	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 34.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	6799	wwPDB-VP
Average B, all atoms (Å ²)	27.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 17.85% 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: EKR, CL

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	0.72	1/3032 (0.0%)	0.96	1/4108 (0.0%)
1	B	0.70	0/2951	0.96	3/3996 (0.1%)
2	C	0.66	0/257	0.94	0/341
2	D	0.65	0/257	0.92	0/341
All	All	0.71	1/6497 (0.0%)	0.96	4/8786 (0.0%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	256	MET	SD-CE	-5.39	1.66	1.79

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	210	SER	N-CA-C	5.62	118.23	109.52
1	B	210	SER	N-CA-C	5.58	118.17	109.52
1	B	381	ASN	CA-CB-CG	5.43	118.03	112.60
1	B	339	ASP	CA-CB-CG	5.21	117.81	112.60

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	2951	0	2860	25	0
1	B	2878	0	2784	30	0
2	C	254	0	260	4	0
2	D	254	0	260	2	0
3	A	2	0	0	0	0
3	B	2	0	0	0	0
4	A	30	0	0	0	0
4	B	30	0	0	1	0
5	A	197	0	0	0	0
5	B	179	0	0	0	0
5	C	13	0	0	0	0
5	D	9	0	0	0	0
All	All	6799	0	6164	55	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 4.

All (55) 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:317:ASP:H	2:D:45:ASN:HD21	1.38	0.71
1:B:317:ASP:H	2:C:45:ASN:HD21	1.38	0.71
1:B:199:HIS:HD2	1:B:201:ARG:H	1.38	0.70
1:A:199:HIS:HD2	1:A:201:ARG:H	1.41	0.68
1:A:160:HIS:CE1	1:A:178:ILE:HD12	2.28	0.68
1:A:92:HIS:HD2	1:A:94:GLN:H	1.43	0.66
1:B:199:HIS:CD2	1:B:201:ARG:H	2.14	0.65
1:A:90:GLU:OE2	1:A:92:HIS:HE1	1.80	0.65
1:B:160:HIS:CE1	1:B:178:ILE:HD12	2.32	0.65
1:B:92:HIS:HD2	1:B:94:GLN:H	1.43	0.64
1:A:199:HIS:CD2	1:A:201:ARG:H	2.14	0.64
1:B:199:HIS:CD2	1:B:202:ASP:H	2.17	0.62
1:B:199:HIS:HD2	1:B:202:ASP:H	1.47	0.60
1:A:406:HIS:HD2	1:A:408:LYS:H	1.49	0.60
1:B:406:HIS:HD2	1:B:408:LYS:H	1.50	0.60
1:A:199:HIS:CD2	1:A:202:ASP:H	2.21	0.58
1:B:90:GLU:OE2	1:B:92:HIS:HE1	1.87	0.58
1:A:199:HIS:HD2	1:A:202:ASP:H	1.50	0.58
1:B:232:VAL:H	1:B:295:HIS:HD2	1.50	0.57
1:A:92:HIS:CD2	1:A:94:GLN:H	2.22	0.55
1:B:92:HIS:CD2	1:B:94:GLN:H	2.22	0.54
1:B:360:GLN:O	1:B:382:GLN:HG2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:406:HIS:CD2	1:A:408:LYS:H	2.27	0.52
1:B:406:HIS:CD2	1:B:408:LYS:H	2.27	0.52
1:B:228:ILE:HD12	1:B:293:LYS:HE3	1.93	0.50
1:B:125:GLU:OE1	1:B:127:HIS:HE1	1.96	0.49
1:A:228:ILE:HD12	1:A:293:LYS:HE3	1.94	0.48
1:A:386:LEU:HB3	1:A:404:LEU:HB2	1.96	0.48
1:A:112:VAL:HG22	1:A:125:GLU:HG3	1.95	0.48
1:A:387:TYR:HB3	1:A:400:LYS:HE2	1.95	0.48
1:B:112:VAL:HG22	1:B:125:GLU:HG3	1.94	0.48
1:A:324:CYS:SG	1:A:364:TRP:CH2	3.07	0.47
1:B:387:TYR:HB3	1:B:400:LYS:HE2	1.96	0.47
1:A:317:ASP:H	2:D:45:ASN:ND2	2.10	0.47
1:B:358:TYR:HE1	1:B:361:CYS:HB3	1.80	0.46
1:B:358:TYR:CE1	1:B:361:CYS:HB3	2.51	0.46
1:A:215:LEU:HD21	1:A:253:SER:HB3	1.98	0.45
1:A:90:GLU:OE2	1:A:92:HIS:CE1	2.65	0.45
1:B:367:ARG:HG3	4:B:503:EKR:C25	2.47	0.45
1:A:98:GLY:HA2	1:A:415[A]:GLN:OE1	2.16	0.44
1:B:380:GLY:HA3	1:B:413:ILE:HB	1.99	0.44
1:B:215:LEU:HD21	1:B:253:SER:HB3	1.99	0.44
1:B:317:ASP:H	2:C:45:ASN:ND2	2.11	0.43
1:B:231:GLY:HA3	1:B:295:HIS:CD2	2.53	0.43
1:B:112:VAL:HG11	2:C:68:VAL:HG21	2.00	0.43
1:A:256:MET:HE3	1:A:308:TYR:CZ	2.54	0.42
1:A:380:GLY:HA3	1:A:413:ILE:HB	2.01	0.42
1:B:125:GLU:OE1	1:B:127:HIS:CE1	2.72	0.42
1:B:138:TYR:HB2	1:B:180:MET:HG3	2.01	0.42
1:B:254:CYS:HB2	1:B:309:VAL:HB	2.02	0.42
1:A:254:CYS:HB2	1:A:309:VAL:HB	2.03	0.41
1:A:389:TRP:NE1	1:A:400:LYS:HD3	2.36	0.41
1:A:125:GLU:OE2	1:A:127:HIS:CE1	2.74	0.40
1:B:360:GLN:O	1:B:381:ASN:HB2	2.22	0.40
1:B:112:VAL:HG21	2:C:68:VAL:HG22	2.03	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	364/366 (100%)	351 (96%)	13 (4%)	0	100	100
1	B	353/366 (96%)	342 (97%)	11 (3%)	0	100	100
2	C	27/29 (93%)	26 (96%)	1 (4%)	0	100	100
2	D	27/29 (93%)	26 (96%)	1 (4%)	0	100	100
All	All	771/790 (98%)	745 (97%)	26 (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	327/328 (100%)	323 (99%)	4 (1%)	63	57
1	B	317/328 (97%)	311 (98%)	6 (2%)	50	41
2	C	29/29 (100%)	27 (93%)	2 (7%)	14	5
2	D	29/29 (100%)	29 (100%)	0	100	100
All	All	702/714 (98%)	690 (98%)	12 (2%)	53	45

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

Mol	Chain	Res	Type
1	A	88	LEU
1	A	209	VAL

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Mol	Chain	Res	Type
1	A	343	ILE
1	A	386	LEU
1	B	88	LEU
1	B	123	LEU
1	B	209	VAL
1	B	275	LYS
1	B	343	ILE
1	B	386	LEU
2	C	41	MET
2	C	68	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (33) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	92	HIS
1	A	94	GLN
1	A	100	GLN
1	A	104	HIS
1	A	127	HIS
1	A	129	GLN
1	A	160	HIS
1	A	199	HIS
1	A	221	GLN
1	A	286	ASN
1	A	349	ASN
1	A	360	GLN
1	A	374	GLN
1	A	406	HIS
1	B	92	HIS
1	B	94	GLN
1	B	100	GLN
1	B	104	HIS
1	B	127	HIS
1	B	146	ASN
1	B	199	HIS
1	B	204	ASN
1	B	221	GLN
1	B	272	ASN
1	B	295	HIS
1	B	382	GLN
1	B	406	HIS
2	C	45	ASN

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Mol	Chain	Res	Type
2	C	47	GLN
2	C	66	GLN
2	D	45	ASN
2	D	47	GLN
2	D	66	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](#)

Of 6 ligands modelled in this entry, 4 are monoatomic - leaving 2 for Mogul analysis.

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	$\# Z > 2$
4	EKR	B	503	-	34,34,34	2.26	7 (20%)	42,48,48	2.32	13 (30%)
4	EKR	A	503	-	34,34,34	2.16	7 (20%)	42,48,48	2.75	14 (33%)

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
4	EKR	B	503	-	-	2/13/19/19	0/5/5/5
4	EKR	A	503	-	-	2/13/19/19	0/5/5/5

All (14) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	A	503	EKR	C3-N4	-6.89	1.30	1.39
4	B	503	EKR	C3-N4	-6.55	1.31	1.39
4	B	503	EKR	C9-N4	-6.15	1.29	1.37
4	A	503	EKR	C9-N4	-4.87	1.31	1.37
4	A	503	EKR	C2-C3	4.80	1.49	1.43
4	B	503	EKR	C2-C3	4.16	1.48	1.43
4	B	503	EKR	C1-N6	3.46	1.44	1.36
4	B	503	EKR	C3-N7	-3.40	1.27	1.32
4	A	503	EKR	C1-N6	3.27	1.44	1.36
4	A	503	EKR	C3-N7	-3.02	1.28	1.32
4	B	503	EKR	C11-C2	2.43	1.52	1.48
4	A	503	EKR	C11-C2	2.41	1.52	1.48
4	A	503	EKR	N8-N7	2.39	1.43	1.39
4	B	503	EKR	N8-N7	2.16	1.43	1.39

All (27) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	A	503	EKR	C29-O30-C27	-8.33	101.05	107.07
4	A	503	EKR	C2-C1-N6	-7.66	117.73	126.19
4	A	503	EKR	N10-C5-N4	7.46	121.36	116.93
4	B	503	EKR	C2-C1-N6	-7.26	118.17	126.19
4	B	503	EKR	C29-O30-C27	-5.24	103.28	107.07
4	B	503	EKR	N10-C5-N4	4.85	119.81	116.93
4	A	503	EKR	C9-N4-C3	-4.04	103.53	106.90
4	A	503	EKR	C29-C28-C26	-3.98	98.71	101.97
4	B	503	EKR	N4-C3-N7	3.91	114.51	110.45
4	B	503	EKR	C9-N4-C3	-3.89	103.65	106.90
4	A	503	EKR	C25-C26-C27	3.63	122.20	119.95
4	A	503	EKR	N4-C3-N7	3.56	114.14	110.45
4	A	503	EKR	C28-C26-C27	-3.41	105.66	107.98
4	B	503	EKR	C29-C28-C26	-3.37	99.21	101.97
4	B	503	EKR	C11-C2-C3	2.92	124.87	121.54
4	B	503	EKR	C12-C11-C2	-2.78	116.98	120.98
4	A	503	EKR	C24-C25-C26	-2.77	116.82	120.88
4	A	503	EKR	O30-C29-C28	-2.75	105.03	107.86
4	B	503	EKR	C20-N18-C17	2.68	116.14	110.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	B	503	EKR	O30-C27-C26	2.65	115.33	113.59
4	A	503	EKR	C1-C2-C3	-2.56	116.14	119.44
4	B	503	EKR	C3-N7-N8	-2.50	103.32	106.74
4	A	503	EKR	C11-C2-C3	2.47	124.36	121.54
4	B	503	EKR	C1-C2-C3	-2.24	116.55	119.44
4	A	503	EKR	C9-N8-N7	-2.19	103.32	107.66
4	B	503	EKR	C24-C25-C26	-2.01	117.93	120.88
4	A	503	EKR	N4-C5-N6	-2.01	118.64	122.97

There are no chirality outliers.

All (4) torsion outliers are listed below:

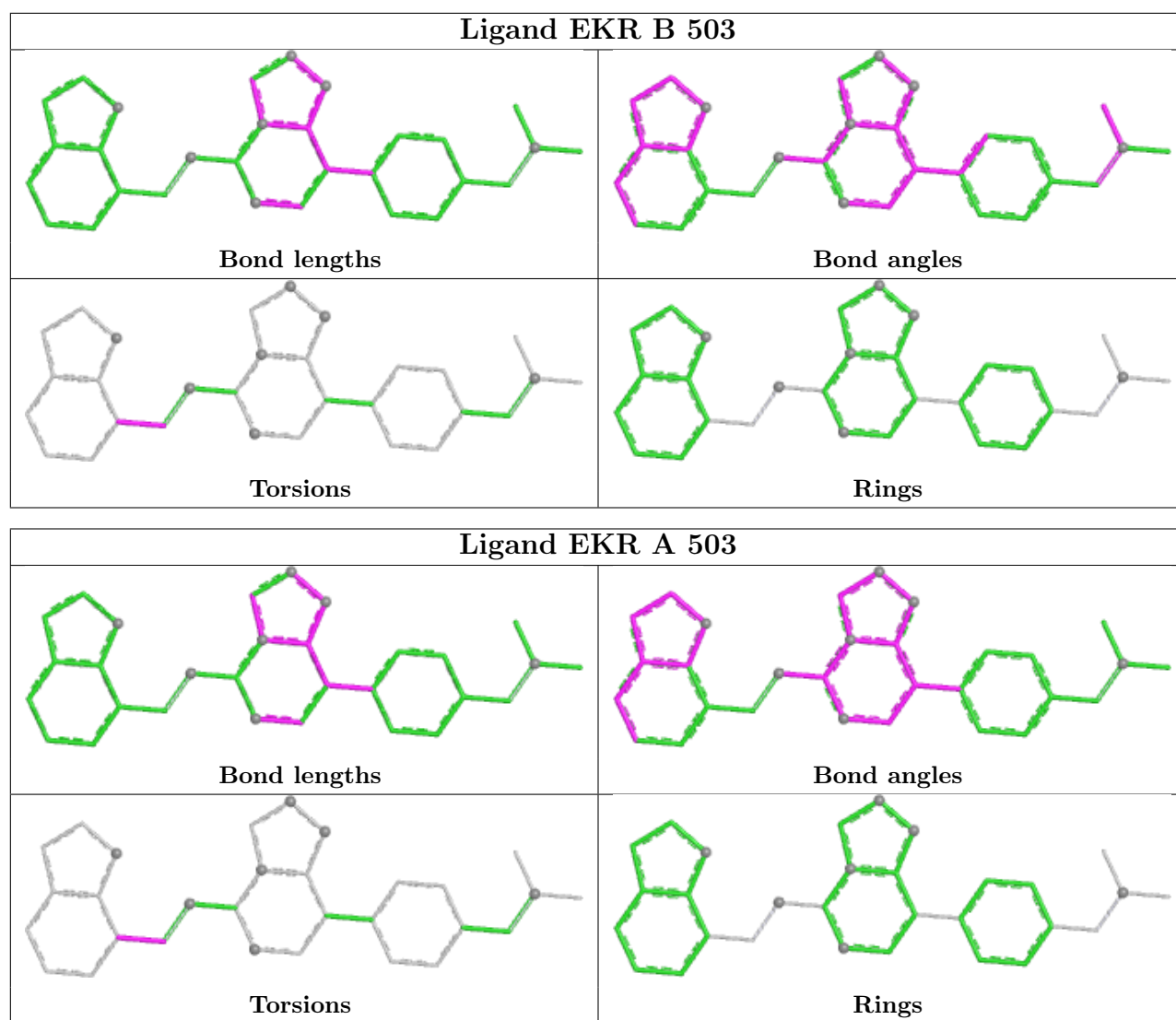
Mol	Chain	Res	Type	Atoms
4	A	503	EKR	N10-C21-C22-C27
4	B	503	EKR	N10-C21-C22-C27
4	A	503	EKR	N10-C21-C22-C23
4	B	503	EKR	N10-C21-C22-C23

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	B	503	EKR	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	364/366 (99%)	-0.03	16 (4%) 39 38	8, 23, 45, 71	2 (0%)
1	B	357/366 (97%)	0.02	20 (5%) 30 29	13, 25, 45, 61	0
2	C	29/29 (100%)	0.65	4 (13%) 6 5	22, 35, 49, 51	0
2	D	29/29 (100%)	0.87	6 (20%) 2 2	24, 36, 56, 59	0
All	All	779/790 (98%)	0.05	46 (5%) 28 27	8, 25, 48, 71	2 (0%)

All (46) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	D	68	VAL	5.0
1	B	78	CYS	4.3
2	C	68	VAL	4.1
2	D	67	PRO	4.0
1	A	401	CYS	3.7
1	A	397	HIS	3.7
1	B	401	CYS	3.5
1	A	183	ILE	3.4
1	B	397	HIS	3.2
1	A	440	LEU	3.1
1	B	364	TRP	3.1
1	A	364	TRP	3.1
1	B	79	LYS	3.1
1	B	288	PRO	3.0
1	A	284	LYS	3.0
2	C	67	PRO	3.0
1	B	188	GLY	2.9
1	A	78	CYS	2.8
1	A	283	ASN	2.8
2	D	65	ILE	2.7
1	B	108	GLY	2.7

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Mol	Chain	Res	Type	RSRZ
1	B	400	LYS	2.6
1	B	77	LYS	2.6
2	C	62	GLN	2.6
1	B	139	VAL	2.6
1	B	343	ILE	2.5
1	B	280	TYR	2.5
1	B	363	ILE	2.5
1	A	108	GLY	2.4
1	A	343	ILE	2.4
1	A	188	GLY	2.4
1	A	285	THR	2.3
1	A	306	ARG	2.3
1	B	157	ASN	2.3
1	B	396	PRO	2.3
1	B	398	LYS	2.2
2	D	62	GLN	2.2
2	C	41	MET	2.2
2	D	66	GLN	2.2
1	B	440	LEU	2.2
1	A	281	ASN	2.1
1	A	395	ASP	2.1
2	D	41	MET	2.1
1	B	402	THR	2.1
1	B	399	ALA	2.1
1	A	77	LYS	2.0

6.2 Non-standard residues in protein, DNA, RNA chains ⓘ

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates ⓘ

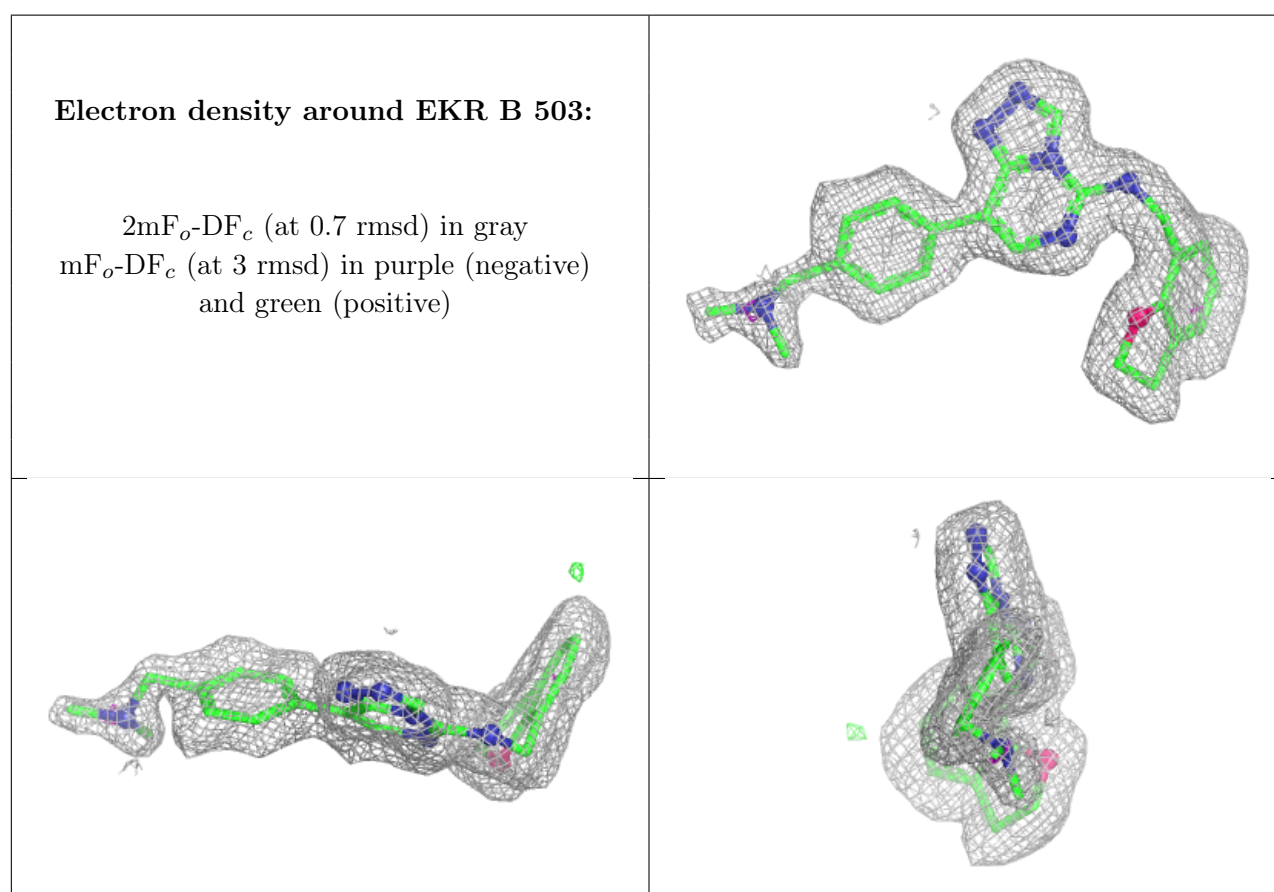
There are no oligosaccharides in this entry.

6.4 Ligands ⓘ

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.

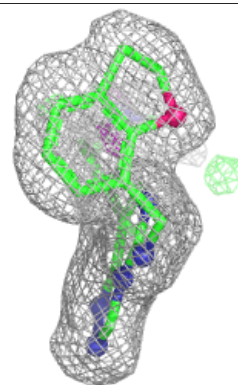
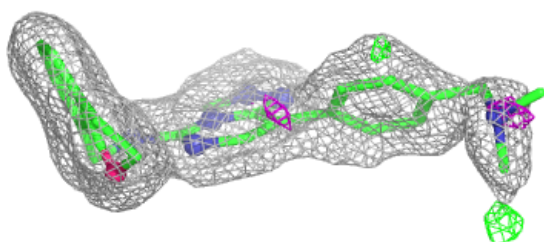
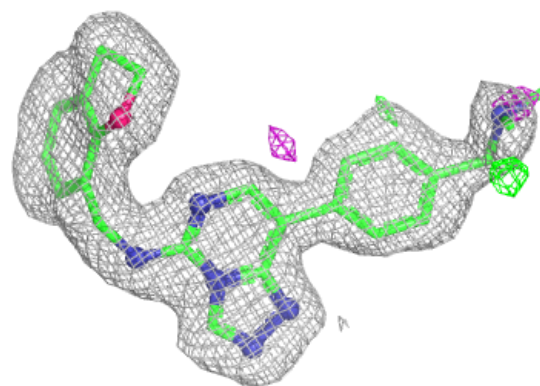
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
4	EKR	B	503	30/30	0.92	0.09	22,29,35,35	0
4	EKR	A	503	30/30	0.95	0.07	18,24,34,35	0
3	CL	A	502	1/1	0.97	0.15	29,29,29,29	0
3	CL	B	501	1/1	0.97	0.05	17,17,17,17	0
3	CL	A	501	1/1	0.98	0.06	16,16,16,16	0
3	CL	B	502	1/1	0.98	0.16	28,28,28,28	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 EKR A 503:

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



6.5 Other polymers ⓘ

There are no such residues in this entry.