



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 6, 2026 – 03:24 PM UTC

PDB ID : 6XUE / pdb_00006xue
Title : Human Ecto-5'-nucleotidase (CD73) in complex with A2396 (compound 74 in publication) in the closed form in crystal form IV
Authors : Strater, N.
Deposited on : 2020-01-19
Resolution : 1.94 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

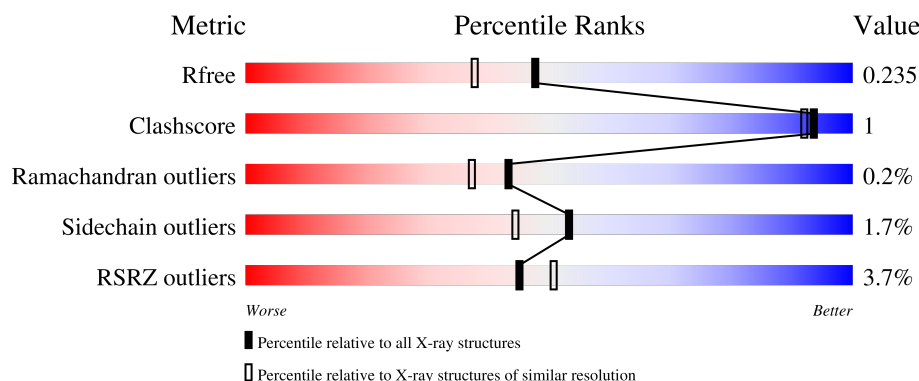
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.94 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	1452 (1.94-1.94)
Clashscore	190562	1494 (1.94-1.94)
Ramachandran outliers	187476	1479 (1.94-1.94)
Sidechain outliers	187428	1479 (1.94-1.94)
RSRZ outliers	180081	1453 (1.94-1.94)

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	538	
1	B	538	

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 8854 atoms, of which 30 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 5'-nucleotidase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	516	Total	C	N	O	S	0	8	0
			4056	2588	687	763	18			
1	B	514	Total	C	N	O	S	0	1	0
			4003	2547	680	758	18			

There are 38 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	53	ASP	ASN	conflict	UNP P21589
A	311	ASP	ASN	conflict	UNP P21589
A	333	ASP	ASN	conflict	UNP P21589
A	403	ASP	ASN	conflict	UNP P21589
A	550	GLY	-	expression tag	UNP P21589
A	551	GLY	-	expression tag	UNP P21589
A	552	GLY	-	expression tag	UNP P21589
A	553	GLY	-	expression tag	UNP P21589
A	554	ALA	-	expression tag	UNP P21589
A	555	GLY	-	expression tag	UNP P21589
A	556	GLY	-	expression tag	UNP P21589
A	557	GLY	-	expression tag	UNP P21589
A	558	GLY	-	expression tag	UNP P21589
A	559	HIS	-	expression tag	UNP P21589
A	560	HIS	-	expression tag	UNP P21589
A	561	HIS	-	expression tag	UNP P21589
A	562	HIS	-	expression tag	UNP P21589
A	563	HIS	-	expression tag	UNP P21589
A	564	HIS	-	expression tag	UNP P21589
B	53	ASP	ASN	conflict	UNP P21589
B	311	ASP	ASN	conflict	UNP P21589
B	333	ASP	ASN	conflict	UNP P21589
B	403	ASP	ASN	conflict	UNP P21589
B	550	GLY	-	expression tag	UNP P21589
B	551	GLY	-	expression tag	UNP P21589

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Chain	Residue	Modelled	Actual	Comment	Reference
B	552	GLY	-	expression tag	UNP P21589
B	553	GLY	-	expression tag	UNP P21589
B	554	ALA	-	expression tag	UNP P21589
B	555	GLY	-	expression tag	UNP P21589
B	556	GLY	-	expression tag	UNP P21589
B	557	GLY	-	expression tag	UNP P21589
B	558	GLY	-	expression tag	UNP P21589
B	559	HIS	-	expression tag	UNP P21589
B	560	HIS	-	expression tag	UNP P21589
B	561	HIS	-	expression tag	UNP P21589
B	562	HIS	-	expression tag	UNP P21589
B	563	HIS	-	expression tag	UNP P21589
B	564	HIS	-	expression tag	UNP P21589

- Molecule 2 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	2	Total Zn 2 2	0	0
2	B	2	Total Zn 2 2	0	0

- Molecule 3 is CALCIUM ION (CCD ID: CA) (formula: Ca).

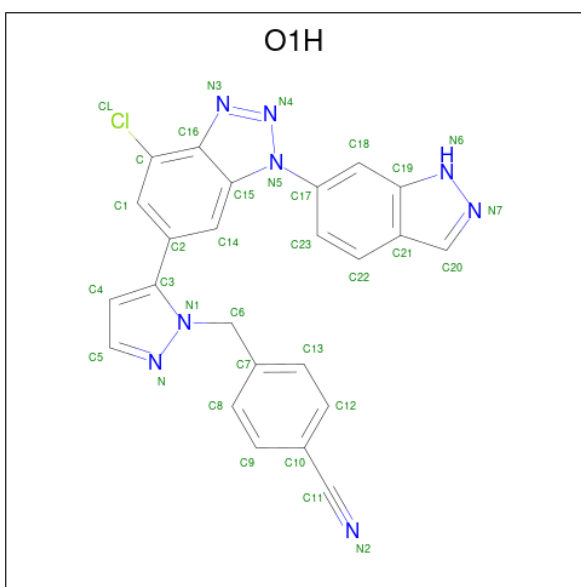
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	1	Total Ca 1 1	0	0
3	B	1	Total Ca 1 1	0	0

- Molecule 4 is PHOSPHATE ION (CCD ID: PO4) (formula: O₄P).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total	O	P	0	0
			5	4	1		
4	B	1	Total	O	P	0	0
			5	4	1		

- Molecule 5 is 4-[[5-[7-chloranyl-3-(1 {H}-indazol-6-yl)benzotriazol-5-yl]pyrazol-1-yl]methyl]benzenecarbonitrile (CCD ID: O1H) (formula: C₂₄H₁₅ClN₈) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
5	A	1	Total	C	Cl	H	N	0	0
			48	24	1	15	8		

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
5	B	1	Total	C	Cl	H	N	0	0
			48	24	1	15	8		

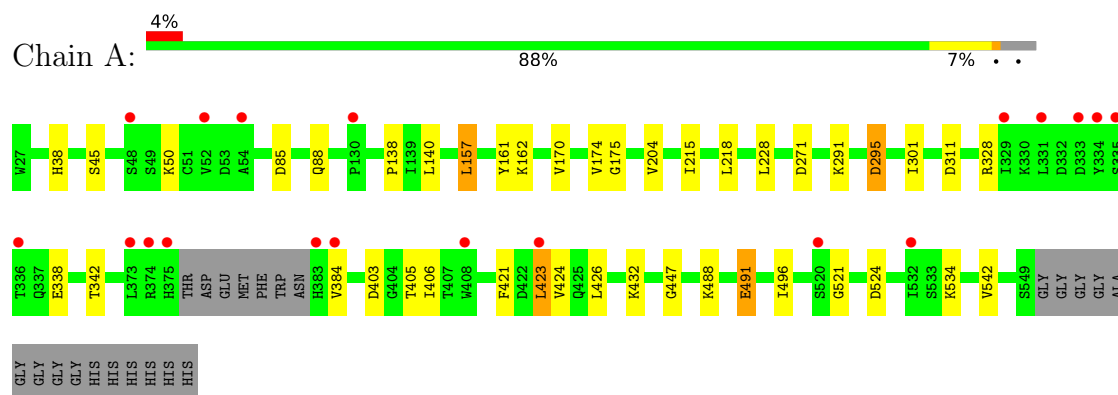
- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	378	Total	O	0	3
			378	378		
6	B	305	Total	O	0	6
			305	305		

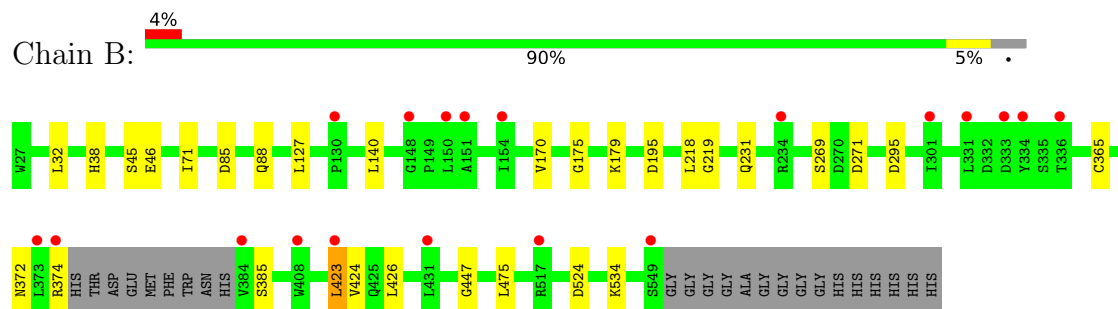
3 Residue-property plots

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: 5'-nucleotidase



- Molecule 1: 5'-nucleotidase



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, α , β , γ	94.02Å 232.18Å 54.83Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	28.30 – 1.94 28.30 – 1.94	Depositor EDS
% Data completeness (in resolution range)	99.6 (28.30-1.94) 99.9 (28.30-1.94)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.34 (at 1.93Å)	Xtriage
Refinement program	BUSTER 2.10.3	Depositor
R, R_{free}	0.190 , 0.219 0.207 , 0.235	Depositor DCC
R_{free} test set	1099 reflections (1.22%)	wwPDB-VP
Wilson B-factor (Å ²)	38.2	Xtriage
Anisotropy	0.543	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 88.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	8854	wwPDB-VP
Average B, all atoms (Å ²)	57.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 34.94 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 6.3047e-04. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

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: CA, ZN, PO4, O1H

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	0.92	0/4163	1.25	12/5636 (0.2%)
1	B	0.90	0/4086	1.25	9/5531 (0.2%)
All	All	0.91	0/8249	1.25	21/11167 (0.2%)

There are no bond length outliers.

All (21) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	524	ASP	CA-CB-CG	6.95	119.55	112.60
1	B	524	ASP	CA-CB-CG	6.12	118.72	112.60
1	A	140	LEU	N-CA-C	5.81	119.02	109.72
1	B	295	ASP	CA-CB-CG	5.74	118.34	112.60
1	B	447	GLY	N-CA-C	5.72	121.08	114.16
1	B	127	LEU	CA-C-N	5.65	127.77	120.70
1	B	127	LEU	C-N-CA	5.65	127.77	120.70
1	A	447	GLY	N-CA-C	5.62	120.85	114.67
1	A	295	ASP	CA-CB-CG	5.51	118.11	112.60
1	A	496	ILE	N-CA-CB	5.40	117.47	110.99
1	A	271	ASP	CA-CB-CG	5.39	117.99	112.60
1	B	45	SER	N-CA-C	-5.37	103.45	110.53
1	B	271	ASP	CA-CB-CG	5.29	117.89	112.60
1	B	140	LEU	N-CA-C	5.26	118.14	109.72
1	A	432	LYS	CA-C-N	5.17	127.21	120.28
1	A	432	LYS	C-N-CA	5.17	127.21	120.28
1	A	542	VAL	N-CA-C	-5.14	99.70	107.73
1	A	45	SER	N-CA-C	-5.06	103.85	110.53
1	B	219	GLY	N-CA-C	5.05	118.83	110.55
1	A	311	ASP	CA-C-N	5.01	128.69	120.63
1	A	311	ASP	C-N-CA	5.01	128.69	120.63

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	4056	0	4074	14	0
1	B	4003	0	4004	8	0
2	A	2	0	0	0	0
2	B	2	0	0	0	0
3	A	1	0	0	0	0
3	B	1	0	0	0	0
4	A	5	0	0	0	0
4	B	5	0	0	0	0
5	A	33	15	0	0	0
5	B	33	15	0	0	0
6	A	378	0	0	0	0
6	B	305	0	0	0	0
All	All	8824	30	8078	22	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 1.

All (22) 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:295:ASP:HB3	1:A:301:ILE:HD11	1.89	0.53
1:B:32:LEU:HD21	1:B:71:ILE:HG21	1.89	0.53
1:A:328:ARG:O	1:A:328:ARG:HD3	2.11	0.51
1:B:424:VAL:HG12	1:B:426:LEU:HG	1.93	0.50
1:A:424:VAL:HG12	1:A:426:LEU:HG	1.94	0.50
1:B:385:SER:HB2	1:B:475:LEU:HD23	1.94	0.49
1:A:175:GLY:HA2	1:A:218:LEU:O	2.14	0.48
1:B:179:LYS:HE2	1:B:195:ASP:HA	1.95	0.47
1:A:138:PRO:HG3	1:A:162:LYS:HG2	1.96	0.47
1:A:342:THR:HB	1:A:406:ILE:HD11	1.97	0.47
1:B:372:ASN:HD21	1:B:423[B]:LEU:HD11	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:204:VAL:HG13	1:A:215:ILE:HD13	1.98	0.46
1:B:175:GLY:HA2	1:B:218:LEU:O	2.16	0.46
1:A:38:HIS:CE1	1:A:85:ASP:HB3	2.53	0.44
1:A:384:VAL:HG21	1:A:423[B]:LEU:HD22	1.99	0.44
1:A:421:PHE:O	1:A:521:GLY:HA3	2.19	0.43
1:B:231:GLN:HA	1:B:269:SER:HA	2.00	0.43
1:B:38:HIS:CE1	1:B:85:ASP:HB3	2.55	0.41
1:A:338:GLU:HG3	1:A:405:THR:HG23	2.02	0.41
1:A:157:LEU:HD12	1:A:157:LEU:HA	1.98	0.41
1:A:161:TYR:HB3	1:A:174[A]:VAL:HG12	2.03	0.40
1:A:488:LYS:HB2	1:A:491:GLU:HB2	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	520/538 (97%)	502 (96%)	17 (3%)	1 (0%)	43	37
1	B	511/538 (95%)	490 (96%)	20 (4%)	1 (0%)	43	37
All	All	1031/1076 (96%)	992 (96%)	37 (4%)	2 (0%)	43	37

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	88	GLN
1	A	88	GLN

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	452/457 (99%)	442 (98%)	10 (2%)	45	35
1	B	443/457 (97%)	436 (98%)	7 (2%)	55	46
All	All	895/914 (98%)	878 (98%)	17 (2%)	53	40

All (17) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	50	LYS
1	A	157	LEU
1	A	170	VAL
1	A	228	LEU
1	A	291	LYS
1	A	403	ASP
1	A	423[A]	LEU
1	A	423[B]	LEU
1	A	491	GLU
1	A	534	LYS
1	B	46	GLU
1	B	170	VAL
1	B	365	CYS
1	B	374	ARG
1	B	423[A]	LEU
1	B	423[B]	LEU
1	B	534	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (15) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	245	ASN
1	A	299	ASN
1	A	325	ASN
1	A	370	ASN
1	A	371	ASN

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Mol	Chain	Res	Type
1	A	402	ASN
1	A	425	GLN
1	B	70	GLN
1	B	245	ASN
1	B	299	ASN
1	B	370	ASN
1	B	372	ASN
1	B	425	GLN
1	B	499	ASN
1	B	526	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.6 Ligand geometry ⓘ

Of 10 ligands modelled in this entry, 6 are monoatomic - leaving 4 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	PO4	B	604	2	4,4,4	2.45	1 (25%)	6,6,6	0.65	0
4	PO4	A	604	2	4,4,4	1.71	0	6,6,6	0.51	0
5	O1H	A	605	-	38,38,38	0.30	0	48,55,55	0.39	0
5	O1H	B	605	-	38,38,38	0.25	0	48,55,55	0.39	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
5	O1H	A	605	-	-	0/14/14/14	0/6/6/6
5	O1H	B	605	-	-	0/14/14/14	0/6/6/6

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	B	604	PO4	P-O1	4.11	1.60	1.50

There are no bond angle outliers.

There are no chirality outliers.

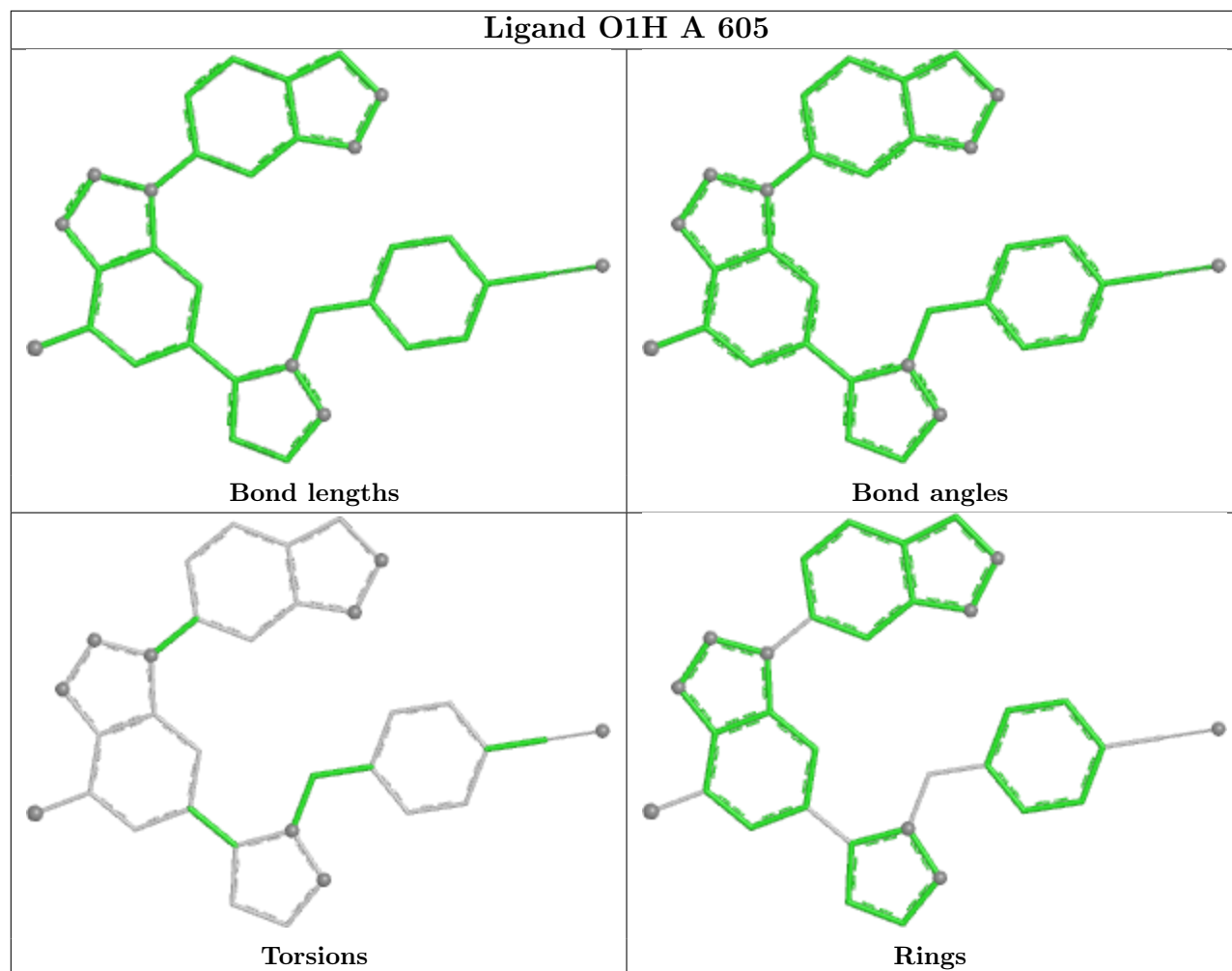
There are no torsion outliers.

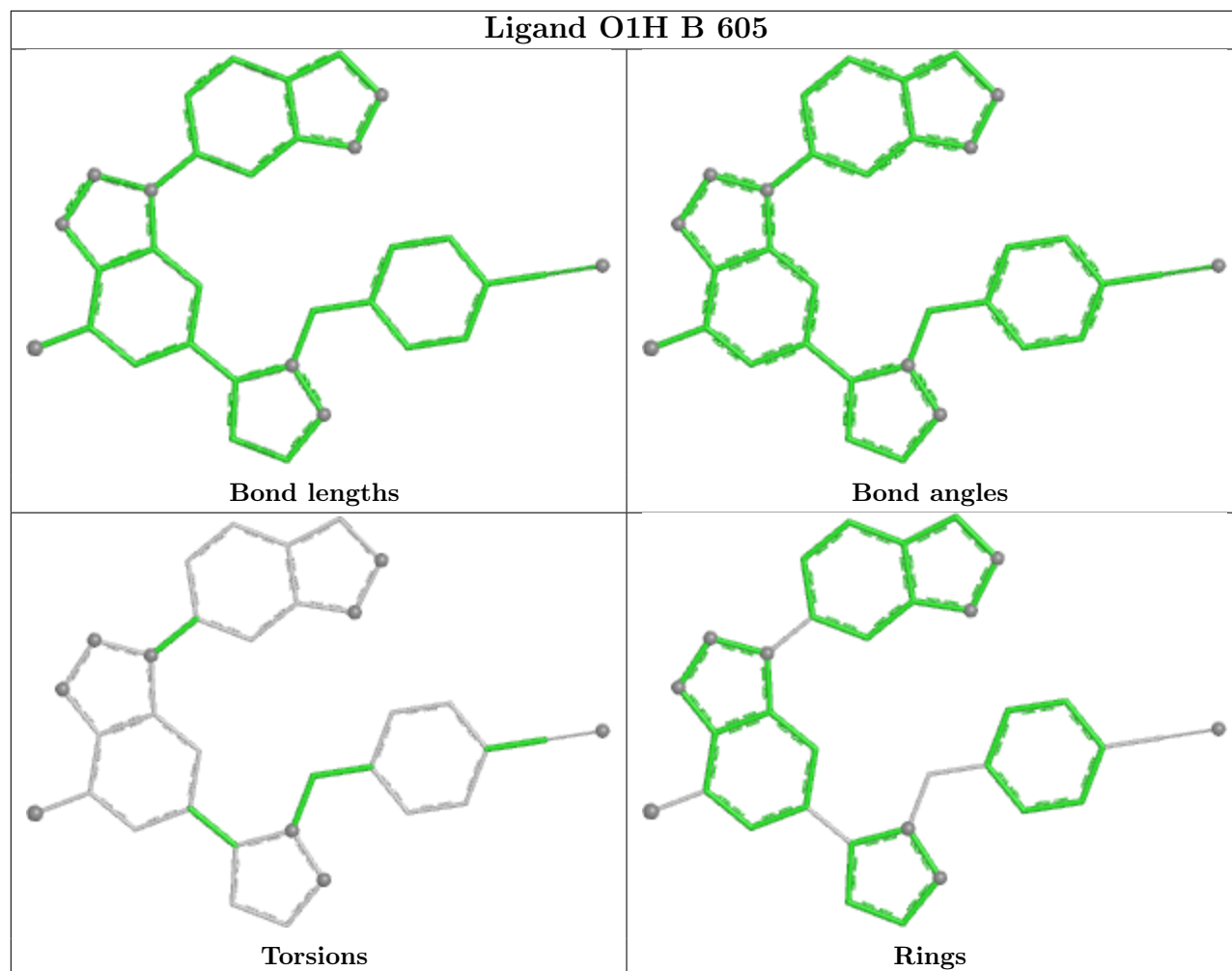
There are no ring outliers.

No monomer is involved in short contacts.

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 O1H A 605





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	516/538 (95%)	0.34	19 (3%)	45 51	27, 51, 78, 136	8 (1%)
1	B	514/538 (95%)	0.42	19 (3%)	45 51	37, 56, 86, 138	1 (0%)
All	All	1030/1076 (95%)	0.38	38 (3%)	45 51	27, 54, 82, 138	9 (0%)

All (38) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	336	THR	5.0
1	B	423[A]	LEU	4.6
1	A	329	ILE	4.2
1	A	130	PRO	4.0
1	B	150	LEU	3.9
1	A	423[A]	LEU	3.6
1	B	154	ILE	3.5
1	A	375	HIS	3.3
1	B	130	PRO	3.2
1	A	408	TRP	3.1
1	A	335	SER	3.1
1	A	333	ASP	3.0
1	B	384	VAL	2.9
1	A	384	VAL	2.8
1	B	374	ARG	2.8
1	A	334	TYR	2.8
1	B	334	TYR	2.8
1	B	148	GLY	2.7
1	A	54	ALA	2.7
1	A	383	HIS	2.7
1	B	336	THR	2.6
1	B	373	LEU	2.6
1	A	48	SER	2.5
1	A	520	SER	2.3

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Mol	Chain	Res	Type	RSRZ
1	B	151	ALA	2.3
1	B	301	ILE	2.2
1	B	408	TRP	2.2
1	B	517	ARG	2.2
1	A	331	LEU	2.2
1	A	374	ARG	2.2
1	A	52	VAL	2.2
1	A	373	LEU	2.2
1	A	532	ILE	2.1
1	B	333	ASP	2.1
1	B	549	SER	2.1
1	B	431	LEU	2.1
1	B	234	ARG	2.1
1	B	331	LEU	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
5	O1H	B	605	33/33	0.94	0.12	29,56,98,102	33
5	O1H	A	605	33/33	0.95	0.10	23,52,79,81	0
4	PO4	B	604	5/5	0.96	0.10	35,40,41,41	5
2	ZN	B	601	1/1	0.96	0.06	42,42,42,42	1
4	PO4	A	604	5/5	0.96	0.12	32,36,37,39	5
2	ZN	A	601	1/1	0.97	0.05	44,44,44,44	1
3	CA	B	603	1/1	0.97	0.06	69,69,69,69	0
3	CA	A	603	1/1	0.98	0.09	51,51,51,51	0
2	ZN	A	602	1/1	0.99	0.03	46,46,46,46	0

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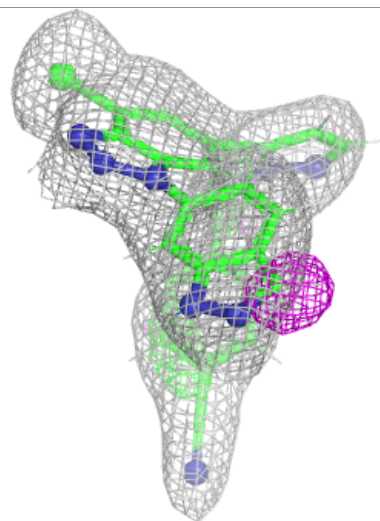
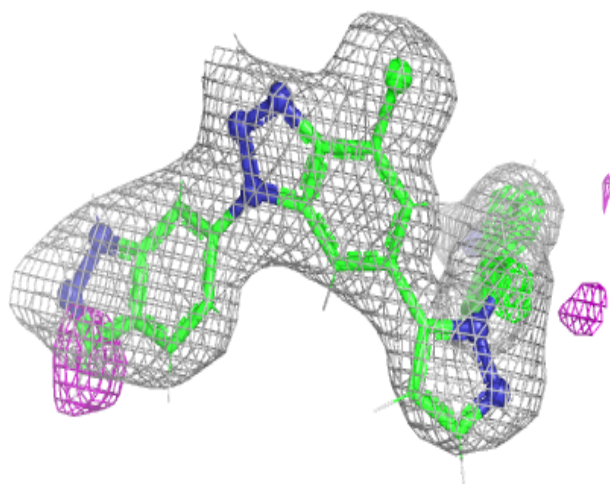
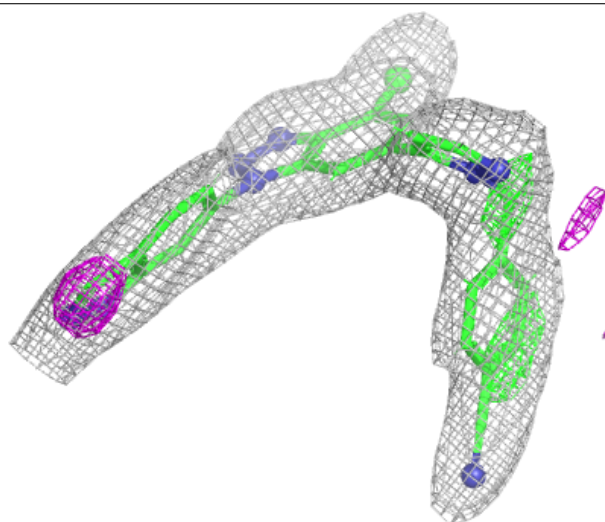
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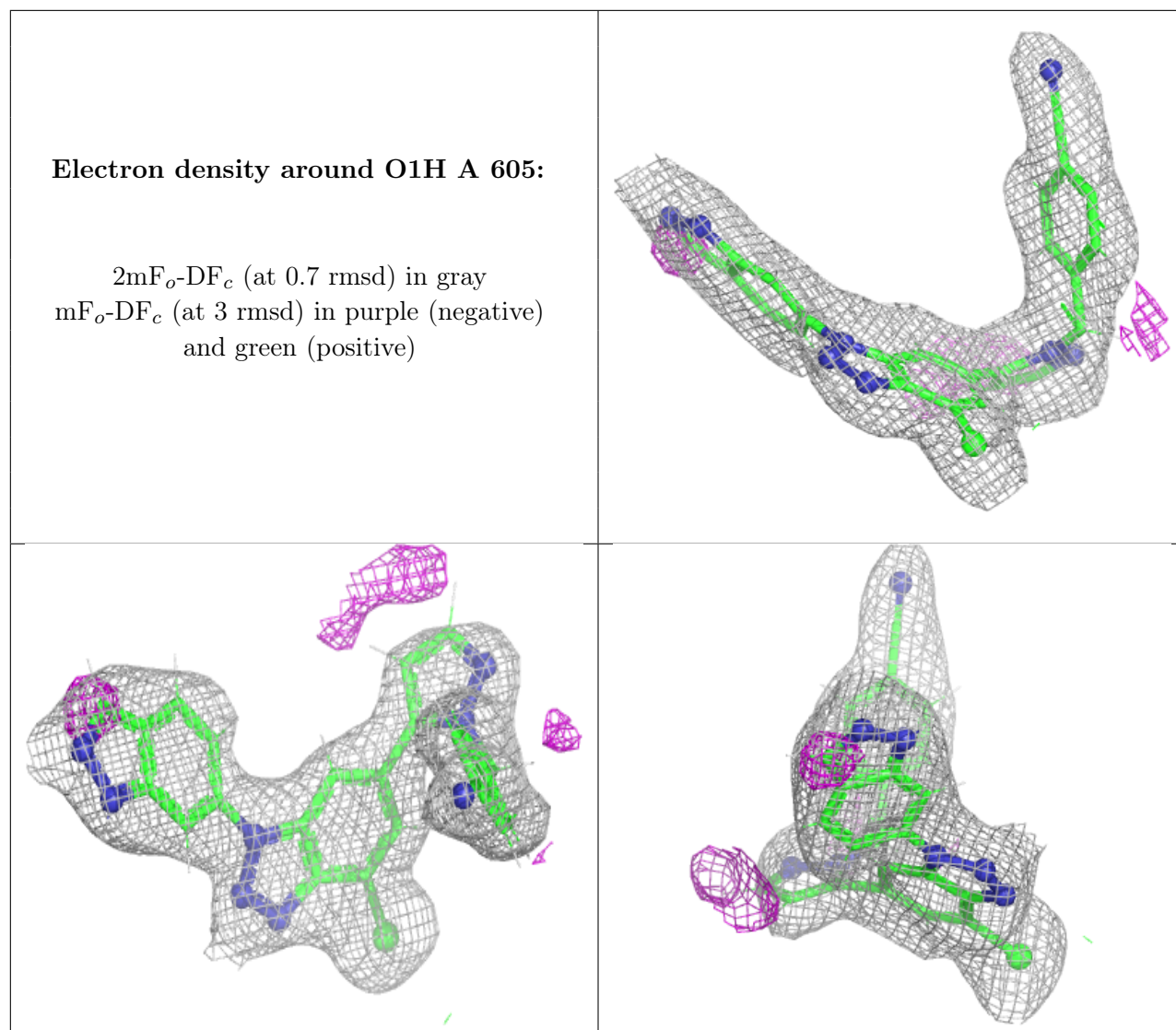
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	ZN	B	602	1/1	0.99	0.04	46,46,46,46	0

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 O1H B 605:

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.