



Full wwPDB X-ray Structure Validation Report ⓘ

Apr 25, 2026 – 07:16 PM EDT

PDB ID : 6YYU / pdb_00006yyu
Title : Aspartyl/Asparaginyl beta-hydroxylase (AspH) oxygenase and TPR domains
in complex with manganese and 2-oxoglutarate
Authors : Nakashima, Y.; Brewitz, L.; Schofield, C.J.
Deposited on : 2020-05-06
Resolution : 2.11 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

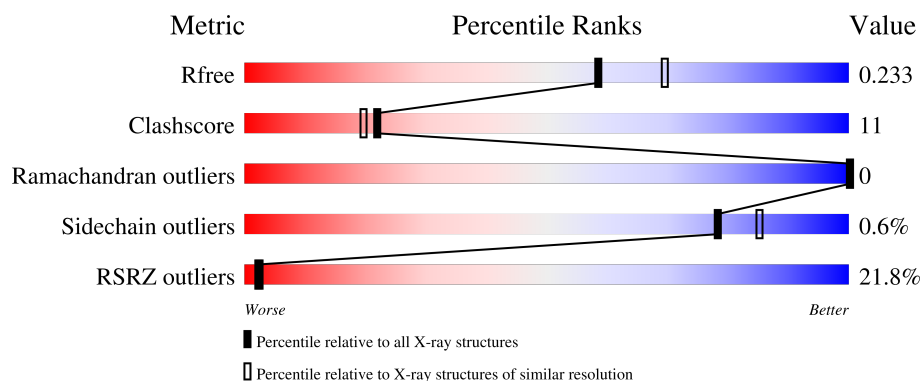
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.11 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	8290 (2.14-2.10)
Clashscore	190562	8817 (2.14-2.10)
Ramachandran outliers	187476	8738 (2.14-2.10)
Sidechain outliers	187428	8739 (2.14-2.10)
RSRZ outliers	180081	8294 (2.14-2.10)

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	429	22% 76% 24%

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 6570 atoms, of which 3144 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.

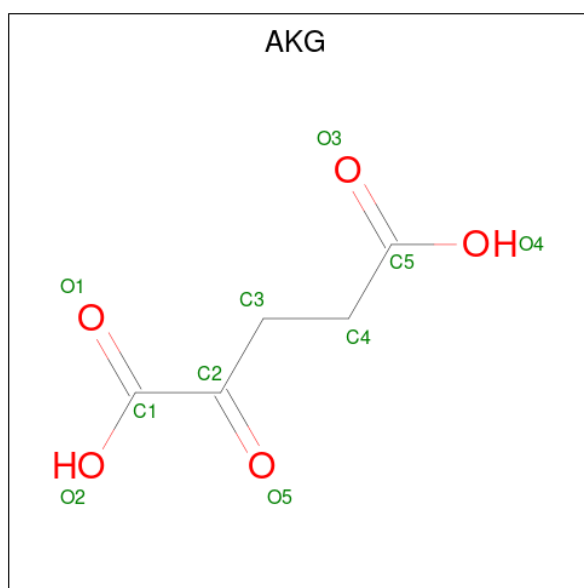
- Molecule 1 is a protein called Aspartyl/asparaginyl beta-hydroxylase.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	427	Total	C	H	N	O	S	12	2	0
			6459	2104	3140	592	611	12			

- Molecule 2 is MANGANESE (II) ION (CCD ID: MN) (formula: Mn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	1	Total	Mn	0	0
			1	1		

- Molecule 3 is 2-OXOGLUTARIC ACID (CCD ID: AKG) (formula: C₅H₆O₅) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	H	O	0	0
			14	5	4	5		

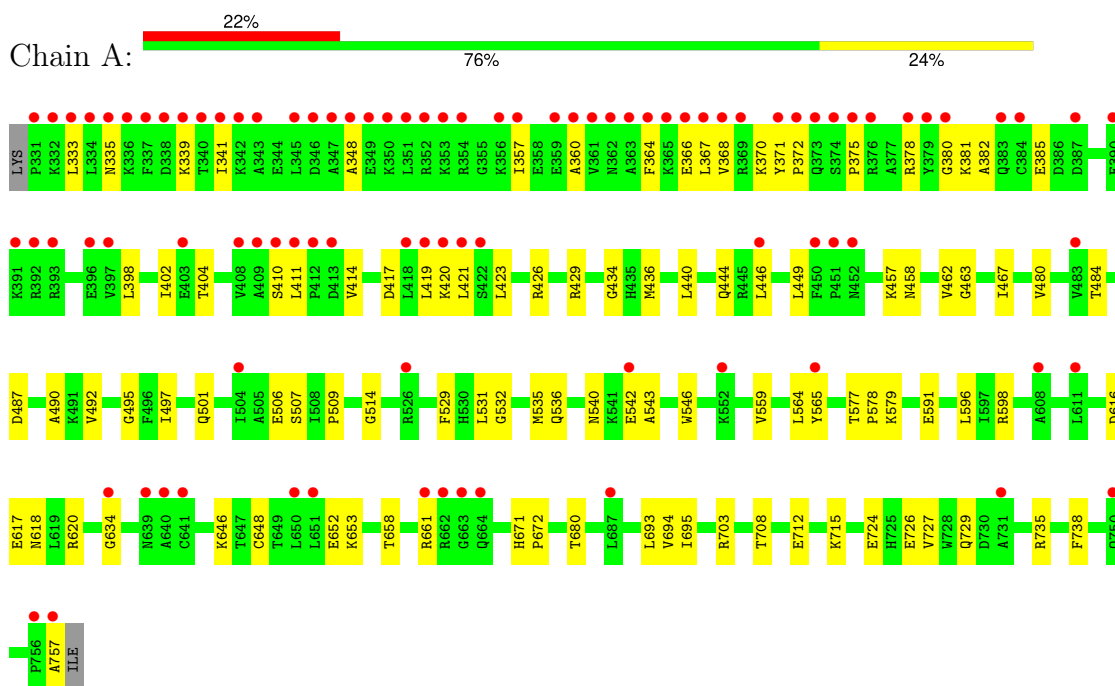
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	96	Total 96	O 96	0	0

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: Aspartyl/asparaginyl beta-hydroxylase



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	48.79Å 70.00Å 170.87Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	85.44 – 2.11 85.44 – 2.11	Depositor EDS
% Data completeness (in resolution range)	59.0 (85.44-2.11) 59.1 (85.44-2.11)	Depositor EDS
R_{merge}	0.18	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.27 (at 2.10Å)	Xtriage
Refinement program	PHENIX 1.17.1 _3660	Depositor
R, R_{free}	0.202 , 0.231 0.202 , 0.233	Depositor DCC
R_{free} test set	1064 reflections (3.07%)	wwPDB-VP
Wilson B-factor (Å ²)	44.4	Xtriage
Anisotropy	0.021	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.44 , 85.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.51$, $\langle L^2 \rangle = 0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	6570	wwPDB-VP
Average B, all atoms (Å ²)	74.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.15% 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: AKG, MN

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	0.74	0/3399	0.94	1/4613 (0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
1	A	653	LYS	CA-C-O	-6.51	108.49	118.91

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	3319	3140	3137	69	0
2	A	1	0	0	0	0
3	A	10	4	4	1	0
4	A	96	0	0	1	1
All	All	3426	3144	3141	69	1

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 11.

All (69) 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:535:MET:HE1	1:A:546:TRP:CD1	2.02	0.93
1:A:335:ASN:O	1:A:339:LYS:N	2.13	0.81
1:A:531:LEU:HG	1:A:535:MET:HE2	1.64	0.80
1:A:694:VAL:O	1:A:695:ILE:HD13	1.83	0.77
1:A:417:ASP:O	1:A:421:LEU:HD13	1.89	0.71
1:A:693:LEU:HD11	1:A:738:PHE:HB2	1.73	0.70
1:A:694:VAL:C	1:A:695:ILE:HD13	2.17	0.70
1:A:440:LEU:O	1:A:444:GLN:HG3	1.91	0.69
1:A:367:LEU:O	1:A:371:TYR:N	2.26	0.68
1:A:419:LEU:HD21	1:A:449:LEU:HD13	1.75	0.67
1:A:484:THR:HG21	1:A:487:ASP:HB2	1.79	0.64
1:A:661:ARG:HB3	1:A:757:ALA:HB2	1.80	0.62
1:A:423:LEU:HB2	1:A:446:LEU:HD21	1.81	0.62
1:A:382:ALA:HB2	1:A:404:THR:HG22	1.83	0.61
1:A:341:ILE:HG22	1:A:341:ILE:O	2.01	0.60
1:A:402:ILE:HG23	1:A:426:ARG:HG3	1.84	0.60
1:A:531:LEU:CG	1:A:535:MET:HE2	2.30	0.60
1:A:535:MET:HB2	1:A:543:ALA:HB2	1.85	0.57
1:A:634:GLY:HA2	1:A:658:THR:O	2.05	0.56
1:A:596:LEU:HD11	1:A:646:LYS:HD2	1.89	0.55
1:A:484:THR:CG2	1:A:487:ASP:HB2	2.38	0.54
1:A:598:ARG:HG3	1:A:693:LEU:HB3	1.90	0.53
1:A:531:LEU:CD1	1:A:535:MET:HE2	2.38	0.53
1:A:348:ALA:HB1	1:A:364:PHE:CE2	2.44	0.52
1:A:378:ARG:NH2	1:A:411:LEU:HD21	2.25	0.51
1:A:542:GLU:HG2	1:A:542:GLU:O	2.09	0.51
1:A:357:ILE:HA	1:A:360:ALA:HB3	1.93	0.51
1:A:497:ILE:O	1:A:501:GLN:HG3	2.11	0.50
1:A:712:GLU:HB2	1:A:715:LYS:HB2	1.93	0.50
1:A:680:THR:HG22	1:A:724:GLU:HA	1.93	0.50
1:A:671:HIS:HB3	1:A:672:PRO:HD2	1.93	0.50
1:A:579:LYS:HG2	4:A:977:HOH:O	2.13	0.48
1:A:410:SER:O	1:A:411:LEU:C	2.57	0.48
1:A:564:LEU:HD23	1:A:565:TYR:CE2	2.49	0.48
1:A:381:LYS:O	1:A:385:GLU:HG2	2.13	0.48
1:A:398:LEU:HD21	1:A:429:ARG:HD3	1.96	0.47
1:A:506:GLU:O	1:A:509:PRO:HD2	2.14	0.47
1:A:375:PRO:HA	1:A:411:LEU:HD12	1.97	0.47
1:A:648:CYS:O	1:A:652:GLU:HG2	2.15	0.47
1:A:434:GLY:HA2	1:A:436:MET:HE2	1.97	0.47
1:A:419:LEU:HD21	1:A:449:LEU:CD1	2.42	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:735:ARG:NH1	3:A:802:AKG:O4	2.39	0.45
1:A:703:ARG:HA	1:A:708:THR:HA	1.98	0.45
1:A:577:THR:O	1:A:578:PRO:C	2.59	0.45
1:A:457:LYS:O	1:A:458:ASN:C	2.58	0.45
1:A:440:LEU:CD2	1:A:467:ILE:HD13	2.47	0.44
1:A:495:GLY:O	1:A:507:SER:HB2	2.18	0.44
1:A:540:ASN:OD1	1:A:540:ASN:C	2.61	0.44
1:A:535:MET:HE1	1:A:546:TRP:CG	2.49	0.43
1:A:671:HIS:HB3	1:A:672:PRO:CD	2.48	0.43
1:A:480:VAL:HG11	1:A:490:ALA:HB2	2.00	0.43
1:A:617:GLU:OE1	1:A:620:ARG:NH1	2.50	0.43
1:A:462:VAL:O	1:A:463:GLY:C	2.58	0.43
1:A:726:GLU:C	1:A:727:VAL:HG23	2.44	0.43
1:A:440:LEU:HD22	1:A:467:ILE:HD13	2.00	0.43
1:A:671:HIS:O	1:A:672:PRO:C	2.58	0.43
1:A:661:ARG:O	1:A:757:ALA:HB1	2.18	0.43
1:A:559:VAL:HG22	1:A:559:VAL:O	2.18	0.43
1:A:380:GLY:O	1:A:381:LYS:C	2.60	0.43
1:A:419:LEU:O	1:A:420:LYS:C	2.62	0.42
1:A:341:ILE:O	1:A:341:ILE:CG2	2.67	0.42
1:A:616:ASP:OD1	1:A:618:ASN:HB3	2.19	0.42
1:A:591:GLU:OE1	1:A:715:LYS:NZ	2.42	0.41
1:A:366:GLU:O	1:A:370:LYS:N	2.41	0.41
1:A:368:VAL:O	1:A:372:PRO:HA	2.21	0.41
1:A:492:VAL:HG13	1:A:514:GLY:HA3	2.03	0.40
1:A:375:PRO:HB3	1:A:414:VAL:HG22	2.02	0.40
1:A:529:PHE:CD1	1:A:529:PHE:C	2.99	0.40
1:A:532:GLY:O	1:A:536:GLN:HG3	2.21	0.40

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:A:918:HOH:O	4:A:973:HOH:O[4_555]	2.14	0.06

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	427/429 (100%)	410 (96%)	17 (4%)	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	328/371 (88%)	326 (99%)	2 (1%)	78	85

All (2) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	333	LEU
1	A	729	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	566	ASN
1	A	593	ASN
1	A	664	GLN

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 2 ligands modelled in this entry, 1 is monoatomic - leaving 1 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
3	AKG	A	802	2	9,9,9	2.13	3 (33%)	11,11,11	2.96	4 (36%)

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
3	AKG	A	802	2	-	2/9/9/9	-

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	802	AKG	O5-C2	-3.53	1.16	1.23
3	A	802	AKG	C2-C1	-3.40	1.48	1.53
3	A	802	AKG	O2-C1	-2.89	1.22	1.30

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	802	AKG	O1-C1-C2	7.88	131.61	121.81
3	A	802	AKG	O5-C2-C3	3.47	128.61	121.17
3	A	802	AKG	C3-C2-C1	-3.21	110.40	115.86
3	A	802	AKG	O2-C1-O1	-2.44	118.09	123.90

There are no chirality outliers.

All (2) torsion outliers are listed below:

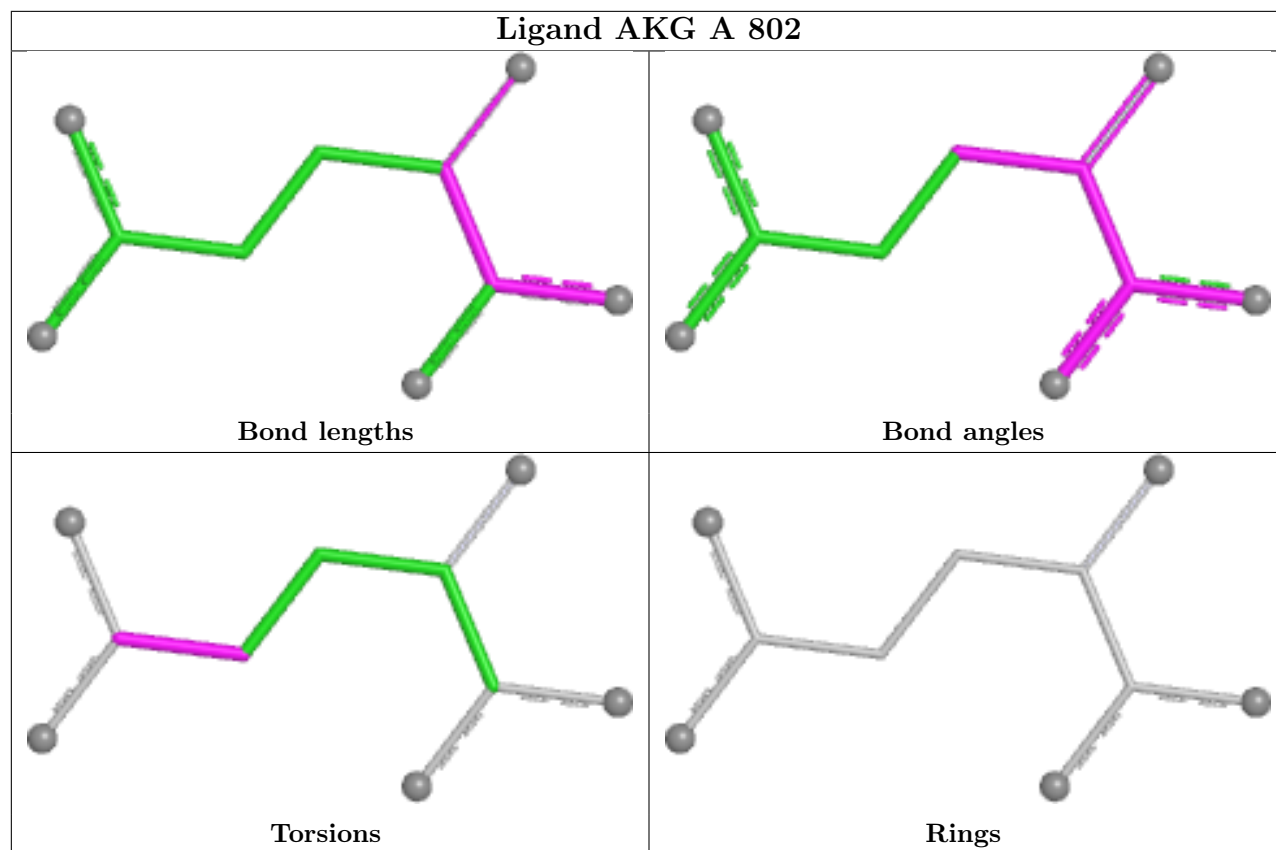
Mol	Chain	Res	Type	Atoms
3	A	802	AKG	C3-C4-C5-O4
3	A	802	AKG	C3-C4-C5-O3

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	802	AKG	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	427/429 (99%)	1.06	93 (21%) 2 2	36, 62, 165, 249	4 (0%)

All (93) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	338	ASP	11.4
1	A	542	GLU	9.6
1	A	333	LEU	8.8
1	A	337	PHE	7.6
1	A	343	ALA	7.1
1	A	413	ASP	6.0
1	A	373	GLN	5.8
1	A	331	PRO	5.7
1	A	364	PHE	5.6
1	A	335	ASN	5.2
1	A	348	ALA	4.9
1	A	418	LEU	4.6
1	A	368	VAL	4.6
1	A	419	LEU	4.6
1	A	357	ILE	4.6
1	A	372	PRO	4.5
1	A	346	ASP	4.4
1	A	409	ALA	4.3
1	A	376	ARG	4.2
1	A	421	LEU	4.2
1	A	351	LEU	4.1
1	A	354	ARG	4.1
1	A	411	LEU	3.9
1	A	375	PRO	3.9
1	A	345	LEU	3.9
1	A	410	SER	3.8
1	A	451	PRO	3.8

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Mol	Chain	Res	Type	RSRZ
1	A	332	LYS	3.8
1	A	361	VAL	3.8
1	A	391	LYS	3.7
1	A	552	LYS	3.7
1	A	334	LEU	3.7
1	A	412	PRO	3.6
1	A	408	VAL	3.6
1	A	339	LYS	3.6
1	A	340	THR	3.6
1	A	341	ILE	3.6
1	A	359	GLU	3.6
1	A	367	LEU	3.5
1	A	352	ARG	3.5
1	A	611	LEU	3.3
1	A	336	LYS	3.3
1	A	450	PHE	3.3
1	A	383	GLN	3.2
1	A	350	LYS	3.2
1	A	639	ASN	3.2
1	A	756	PRO	3.1
1	A	384	CYS	3.1
1	A	393	ARG	3.0
1	A	663	GLY	3.0
1	A	363	ALA	3.0
1	A	526	ARG	3.0
1	A	353	LYS	2.9
1	A	608	ALA	2.9
1	A	371	TYR	2.9
1	A	641	CYS	2.8
1	A	390	GLU	2.8
1	A	356	LYS	2.8
1	A	392	ARG	2.7
1	A	374	SER	2.7
1	A	349	GLU	2.7
1	A	446	LEU	2.6
1	A	378	ARG	2.6
1	A	634	GLY	2.6
1	A	420	LYS	2.6
1	A	347	ALA	2.6
1	A	369	ARG	2.6
1	A	362	ASN	2.6
1	A	662	ARG	2.5

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Mol	Chain	Res	Type	RSRZ
1	A	366	GLU	2.5
1	A	757	ALA	2.5
1	A	687	LEU	2.5
1	A	504	ILE	2.5
1	A	452	ASN	2.4
1	A	651	LEU	2.4
1	A	397	VAL	2.4
1	A	365	LYS	2.4
1	A	360	ALA	2.4
1	A	379	TYR	2.3
1	A	387	ASP	2.3
1	A	396	GLU	2.3
1	A	422	SER	2.2
1	A	640	ALA	2.2
1	A	731	ALA	2.2
1	A	380	GLY	2.2
1	A	403	GLU	2.2
1	A	664	GLN	2.2
1	A	661	ARG	2.2
1	A	650	LEU	2.1
1	A	750	GLN	2.1
1	A	565	TYR	2.1
1	A	483	VAL	2.0
1	A	342	LYS	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](#)

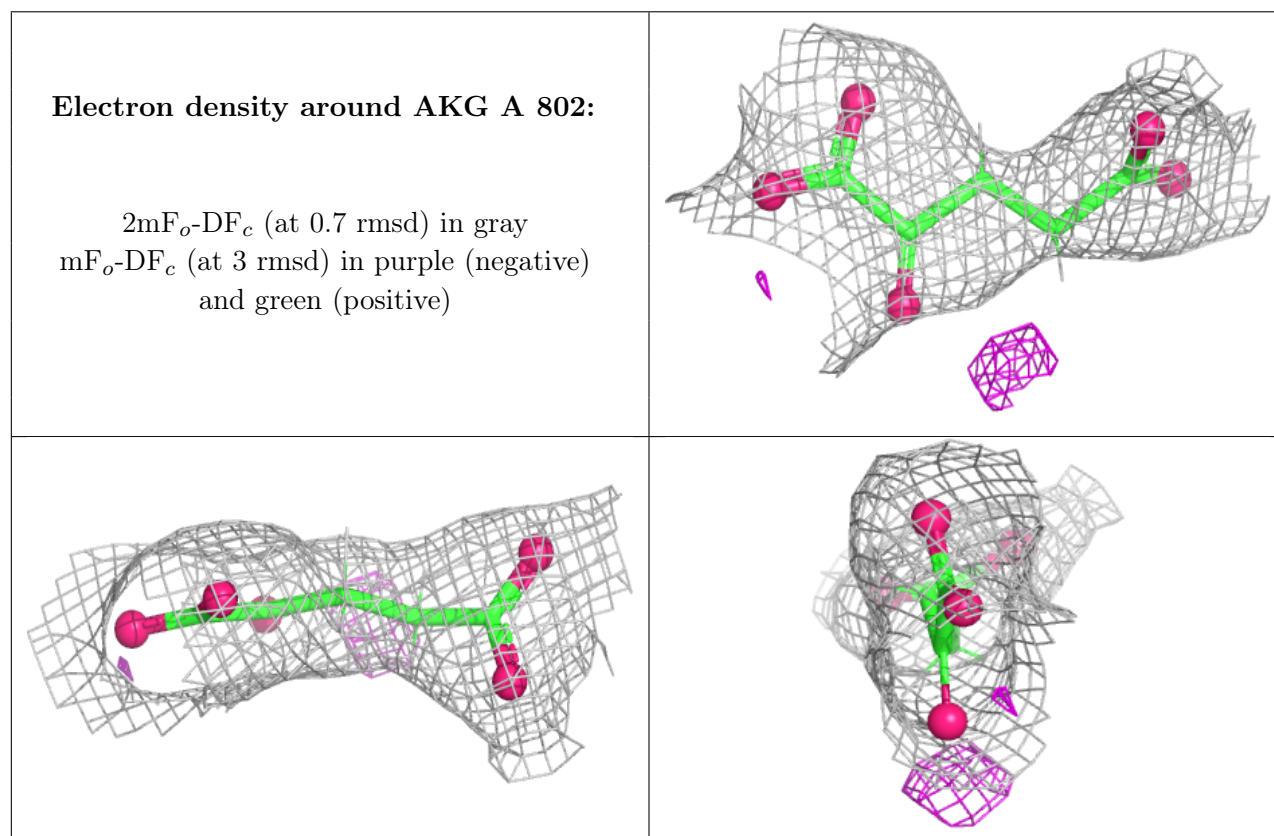
There are no oligosaccharides in this entry.

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
3	AKG	A	802	10/10	0.96	0.10	28,57,70,72	0
2	MN	A	801	1/1	1.00	0.04	35,35,35,35	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.



6.5 Other polymers [i](#)

There are no such residues in this entry.