



# Full wwPDB X-ray Structure Validation Report ⓘ

Jun 22, 2024 – 08:05 PM EDT

PDB ID : 6BO6  
Title : Eubacterium eligens beta-glucuronidase bound to UNC4917 glucuronic acid conjugate  
Authors : Pellock, S.J.; Walton, W.G.; Redinbo, M.R.  
Deposited on : 2017-11-18  
Resolution : 2.80 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](mailto: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>.

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The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity	:	4.02b-467
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	1.20.1
EDS	:	2.37.1
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.37.1

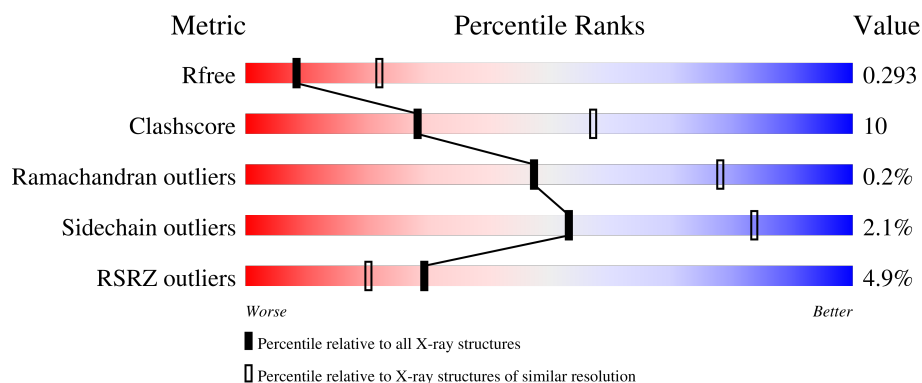
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*


The reported resolution of this entry is 2.80 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))
$R_{free}$	130704	3140 (2.80-2.80)
Clashscore	141614	3569 (2.80-2.80)
Ramachandran outliers	138981	3498 (2.80-2.80)
Sidechain outliers	138945	3500 (2.80-2.80)
RSRZ outliers	127900	3078 (2.80-2.80)

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  $\geq 3$ , 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	611	

## 2 Entry composition [i](#)

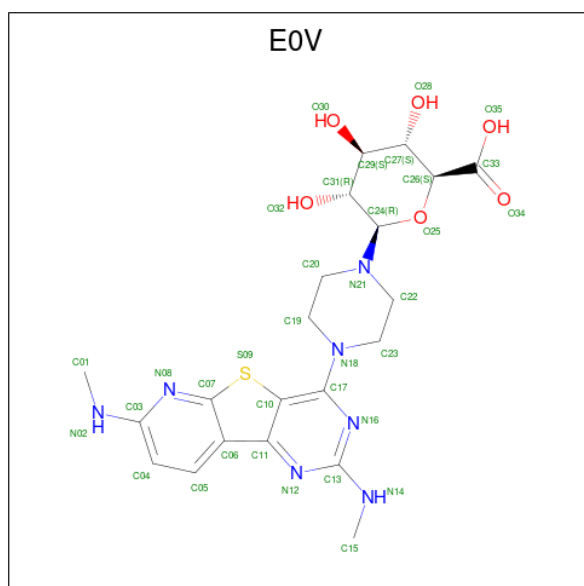
There are 3 unique types of molecules in this entry. The entry contains 4036 atoms, of which 0 are hydrogens and 0 are deuteriums.

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 Glycoside Hydrolase Family 2 candidate b-glucuronidase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	493	Total	C	N	O	S	0	0	0
			3982	2545	663	753	21			

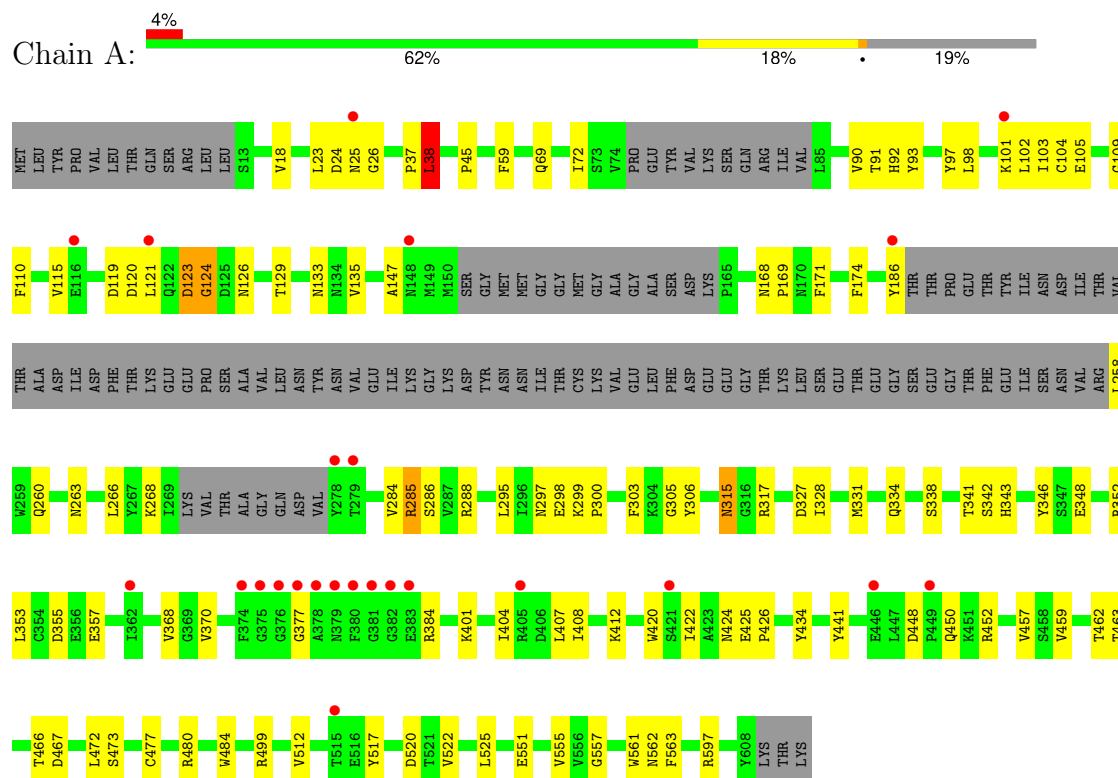
- Molecule 2 is 4-(4-beta-D-glucopyranuronosylpiperazin-1-yl)-2,7-bis(methylamino)pyrido[3',2':4,5]thieno[3,2-d]pyrimidine (three-letter code: E0V) (formula: C<sub>21</sub>H<sub>27</sub>N<sub>7</sub>O<sub>6</sub>S) (labeled as "Ligand of Interest" by depositor).



### 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: Glycoside Hydrolase Family 2 candidate b-glucuronidase



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 64 2 2	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	179.44Å 179.44Å 133.78Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	29.37 – 2.80 29.37 – 2.80	Depositor EDS
% Data completeness (in resolution range)	98.3 (29.37-2.80) 97.8 (29.37-2.80)	Depositor EDS
$R_{merge}$	0.08	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	3.95 (at 2.80Å)	Xtriage
Refinement program	PHENIX 1.11.1_2575	Depositor
R, $R_{free}$	0.258 , 0.292 0.260 , 0.293	Depositor DCC
$R_{free}$ test set	2000 reflections (6.31%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	65.1	Xtriage
Anisotropy	0.426	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.35 , 55.7	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.47$ , $\langle L^2 \rangle = 0.30$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.89	EDS
Total number of atoms	4036	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	69.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.07% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical 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: E0V

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	0.32	0/4089	0.50	1/5538 (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	38	LEU	CA-CB-CG	5.52	127.99	115.30

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	3982	0	3771	76	0
2	A	35	0	0	0	0
3	A	19	0	0	1	0
All	All	4036	0	3771	76	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 10.

All (76) 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:288:ARG:NH2	1:A:298:GLU:OE1	2.01	0.93
1:A:288:ARG:HH22	1:A:298:GLU:CD	1.77	0.88
1:A:448:ASP:OD1	1:A:452:ARG:NH1	2.11	0.83
1:A:25:ASN:N	1:A:26:GLY:HA2	2.01	0.76
1:A:377:GLY:HA3	1:A:384:ARG:NH1	2.02	0.74
1:A:93:TYR:OH	1:A:105:GLU:OE2	2.06	0.74
1:A:408:ILE:O	1:A:412:LYS:HG2	1.87	0.73
1:A:266:LEU:HD11	1:A:355:ASP:HB3	1.72	0.72
1:A:462:THR:HG21	1:A:467:ASP:OD2	1.90	0.70
1:A:104:CYS:HB2	1:A:115:VAL:HG11	1.73	0.70
1:A:119:ASP:OD2	1:A:120:ASP:N	2.25	0.69
1:A:522:VAL:HB	1:A:525:LEU:HD23	1.73	0.69
1:A:258:LEU:HD23	1:A:284:VAL:HG23	1.75	0.68
1:A:424:ASN:HA	1:A:457:VAL:HG23	1.77	0.66
1:A:110:PHE:HE1	1:A:317:ARG:HD2	1.61	0.65
1:A:441:TYR:HH	1:A:473:SER:HG	1.39	0.64
1:A:303:PHE:HB2	1:A:557:GLY:HA3	1.79	0.63
1:A:260:GLN:OE1	1:A:297:ASN:ND2	2.37	0.58
1:A:25:ASN:H	1:A:26:GLY:HA2	1.68	0.58
1:A:499:ARG:NH1	1:A:551:GLU:OE2	2.36	0.58
1:A:334:GLN:HA	1:A:597:ARG:HG3	1.87	0.56
1:A:425:GLU:HB3	1:A:459:VAL:HG22	1.86	0.56
1:A:288:ARG:NH1	1:A:298:GLU:OE2	2.38	0.55
1:A:169:PRO:HB3	1:A:171:PHE:CZ	2.41	0.55
1:A:37:PRO:HA	1:A:69:GLN:HE22	1.72	0.55
1:A:562:ASN:OD1	1:A:563:PHE:N	2.40	0.55
1:A:368:VAL:HG23	1:A:424:ASN:HD22	1.72	0.54
1:A:420:TRP:HZ2	1:A:452:ARG:NH1	2.06	0.53
1:A:121:LEU:HD22	1:A:126:ASN:HD22	1.73	0.53
1:A:72:ILE:HG22	1:A:126:ASN:HB2	1.90	0.53
1:A:462:THR:HG23	1:A:467:ASP:HB2	1.89	0.53
1:A:424:ASN:HA	1:A:457:VAL:CG2	2.40	0.51
1:A:457:VAL:HG12	1:A:477:CYS:HB3	1.94	0.50
1:A:305:GLY:HA3	1:A:338:SER:O	2.12	0.50
1:A:69:GLN:OE1	1:A:129:THR:OG1	2.28	0.50
1:A:512:VAL:O	1:A:555:VAL:HA	2.12	0.50
1:A:370:VAL:HG22	3:A:805:HOH:O	2.12	0.49
1:A:101:LYS:HD3	1:A:120:ASP:OD2	2.12	0.49
1:A:484:TRP:CZ2	1:A:520:ASP:HB2	2.46	0.49
1:A:434:TYR:CE1	1:A:472:LEU:HD11	2.47	0.49
1:A:98:LEU:HB2	1:A:103:ILE:HD11	1.93	0.48
1:A:288:ARG:HH21	1:A:288:ARG:HG2	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:24:ASP:OD2	1:A:26:GLY:HA2	2.14	0.48
1:A:328:ILE:HG21	1:A:357:GLU:HG3	1.94	0.48
1:A:420:TRP:CZ2	1:A:452:ARG:NH1	2.81	0.48
1:A:133:ASN:ND2	1:A:135:VAL:H	2.11	0.48
1:A:102:LEU:HD12	1:A:102:LEU:H	1.78	0.48
1:A:407:LEU:HD22	1:A:420:TRP:HZ3	1.80	0.47
1:A:348:GLU:O	1:A:352:ARG:HG3	2.14	0.47
1:A:370:VAL:O	1:A:370:VAL:HG23	2.15	0.47
1:A:97:TYR:CE1	1:A:102:LEU:HG	2.51	0.46
1:A:401:LYS:H	1:A:401:LYS:HG2	1.59	0.46
1:A:260:GLN:HB2	1:A:263:ASN:HB3	1.97	0.46
1:A:295:LEU:HA	1:A:299:LYS:O	2.16	0.46
1:A:561:TRP:HA	1:A:562:ASN:HA	1.62	0.45
1:A:25:ASN:N	1:A:25:ASN:OD1	2.49	0.45
1:A:91:THR:HA	1:A:92:HIS:HA	1.62	0.45
1:A:315:ASN:OD1	1:A:315:ASN:N	2.50	0.45
1:A:341:THR:HA	1:A:346:TYR:CZ	2.52	0.44
1:A:342:SER:HA	1:A:343:HIS:HA	1.62	0.44
1:A:90:VAL:O	1:A:109:GLY:HA2	2.17	0.44
1:A:18:VAL:HA	1:A:45:PRO:HA	2.00	0.43
1:A:295:LEU:HD23	1:A:300:PRO:HA	2.01	0.43
1:A:370:VAL:HG23	1:A:426:PRO:HB3	2.00	0.43
1:A:404:ILE:HD11	1:A:422:ILE:HG23	2.00	0.43
1:A:147:ALA:O	1:A:168:ASN:HB3	2.19	0.42
1:A:260:GLN:HE22	1:A:299:LYS:NZ	2.18	0.42
1:A:463:THR:HG23	1:A:466:THR:H	1.84	0.42
1:A:480:ARG:HD3	1:A:480:ARG:HA	1.84	0.41
1:A:174:PHE:O	1:A:317:ARG:NH2	2.52	0.41
1:A:23:LEU:HD11	1:A:59:PHE:CD2	2.56	0.41
1:A:38:LEU:CD1	1:A:38:LEU:H	2.34	0.41
1:A:285:ARG:NH1	1:A:450:GLN:OE1	2.32	0.41
1:A:123:ASP:HB3	1:A:124:GLY:H	1.59	0.41
1:A:327:ASP:O	1:A:331:MET:HG3	2.21	0.41
1:A:353:LEU:HD12	1:A:353:LEU:HA	1.95	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	483/611 (79%)	454 (94%)	28 (6%)	1 (0%)	47 78

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	124	GLY

### 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	426/532 (80%)	417 (98%)	9 (2%)	53 84

All (9) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	38	LEU
1	A	123	ASP
1	A	186	TYR
1	A	268	LYS
1	A	285	ARG
1	A	286	SER
1	A	306	TYR
1	A	315	ASN
1	A	517	TYR

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	126	ASN
1	A	133	ASN
1	A	397	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 monosaccharides in this entry.

## 5.6 Ligand geometry [i](#)

1 ligand is 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	E0V	A	701	-	36,39,39	2.84	11 (30%)	41,58,58	2.04	14 (34%)

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	E0V	A	701	-	-	6/16/46/46	0/5/5/5

All (11) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	701	E0V	C13-N14	12.51	1.44	1.34
2	A	701	E0V	C03-N02	6.32	1.49	1.36
2	A	701	E0V	C17-N18	3.79	1.51	1.39
2	A	701	E0V	C23-N18	2.86	1.51	1.46
2	A	701	E0V	C22-N21	-2.81	1.41	1.47
2	A	701	E0V	O34-C33	2.75	1.30	1.22
2	A	701	E0V	O25-C24	2.64	1.48	1.42
2	A	701	E0V	C06-C11	2.46	1.49	1.42
2	A	701	E0V	O25-C26	2.33	1.47	1.43
2	A	701	E0V	C19-N18	2.19	1.50	1.46
2	A	701	E0V	C01-N02	-2.18	1.41	1.45

All (14) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	A	701	E0V	C06-C07-S09	-6.57	105.49	112.24
2	A	701	E0V	C01-N02-C03	-5.14	118.21	122.96
2	A	701	E0V	C29-C31-C24	4.04	115.38	108.94
2	A	701	E0V	C15-N14-C13	-3.14	119.80	123.59
2	A	701	E0V	N12-C13-N16	-2.92	121.47	126.25
2	A	701	E0V	N14-C13-N12	2.67	119.53	116.96
2	A	701	E0V	N16-C17-N18	2.45	118.92	117.17
2	A	701	E0V	C04-C05-C06	-2.41	117.91	121.62
2	A	701	E0V	C23-N18-C17	2.20	124.14	116.86
2	A	701	E0V	C13-N16-C17	2.16	120.91	113.99
2	A	701	E0V	O25-C24-C31	2.14	117.64	110.79
2	A	701	E0V	N14-C13-N16	2.12	119.00	116.96
2	A	701	E0V	C06-C07-N08	-2.09	121.47	124.94
2	A	701	E0V	C22-N21-C20	2.02	112.98	109.13

There are no chirality outliers.

All (6) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	701	E0V	C04-C03-N02-C01
2	A	701	E0V	N08-C03-N02-C01
2	A	701	E0V	N12-C13-N14-C15

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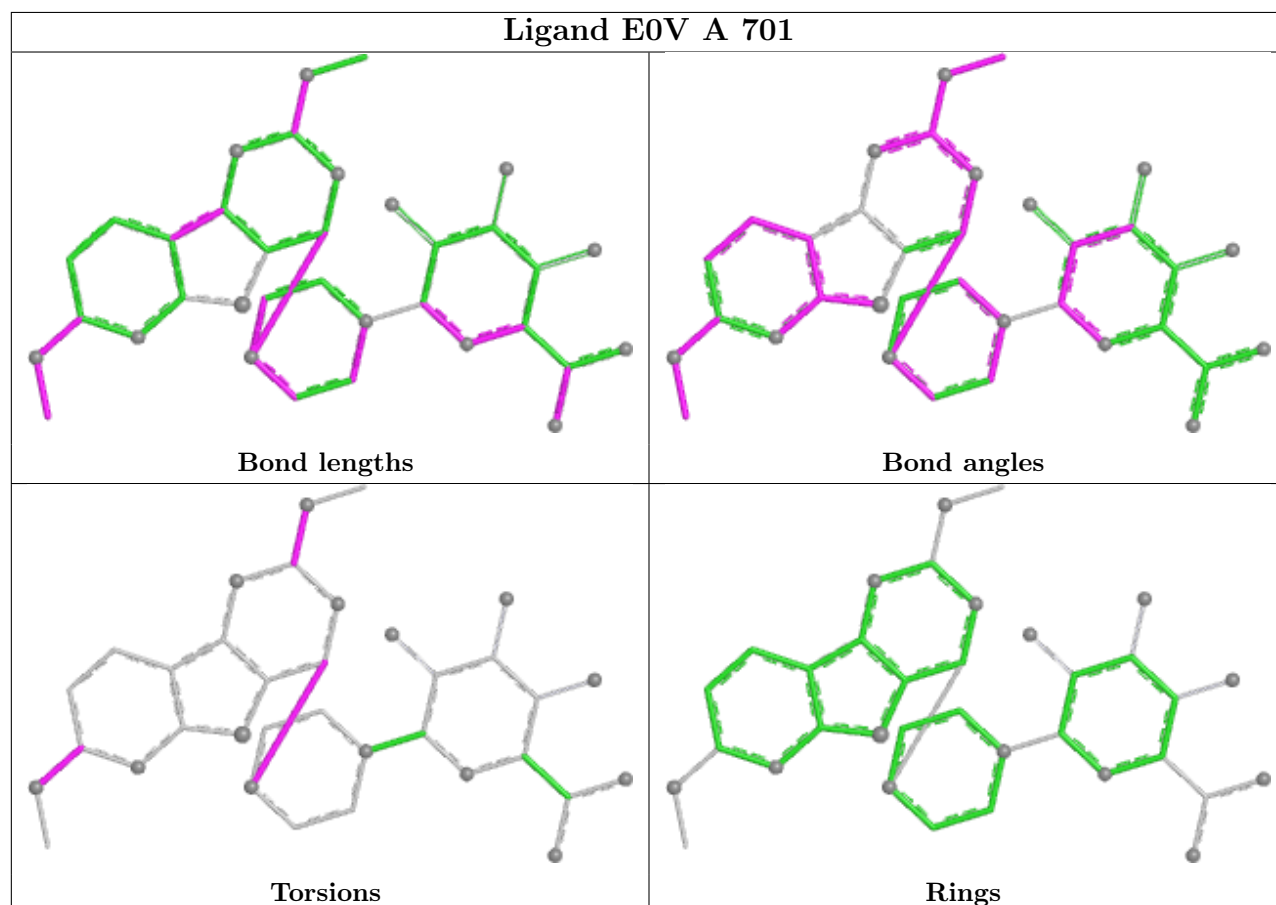
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Mol	Chain	Res	Type	Atoms
2	A	701	E0V	N16-C13-N14-C15
2	A	701	E0V	C10-C17-N18-C23
2	A	701	E0V	N16-C17-N18-C23

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.



## 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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	A	493/611 (80%)	0.09	24 (4%) 29 20	35, 67, 103, 123	0

All (24) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	375	GLY	6.5
1	A	380	PHE	4.3
1	A	186	TYR	3.7
1	A	377	GLY	3.6
1	A	121	LEU	3.5
1	A	382	GLY	3.3
1	A	374	PHE	3.2
1	A	378	ALA	3.2
1	A	278	TYR	3.1
1	A	381	GLY	2.8
1	A	25	ASN	2.7
1	A	405	ARG	2.6
1	A	362	ILE	2.6
1	A	148	ASN	2.5
1	A	116	GLU	2.5
1	A	101	LYS	2.4
1	A	279	THR	2.4
1	A	376	GLY	2.4
1	A	446	GLU	2.4
1	A	421	SER	2.3
1	A	449	PRO	2.2
1	A	379	ASN	2.1
1	A	515	THR	2.1
1	A	383	GLU	2.1

## 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 monosaccharides in this entry.

## 6.4 Ligands [i](#)

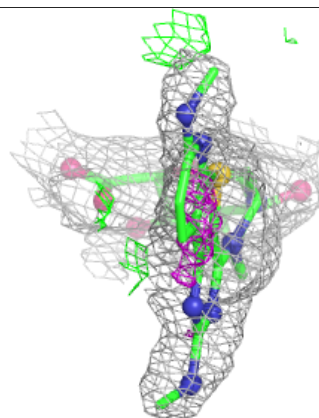
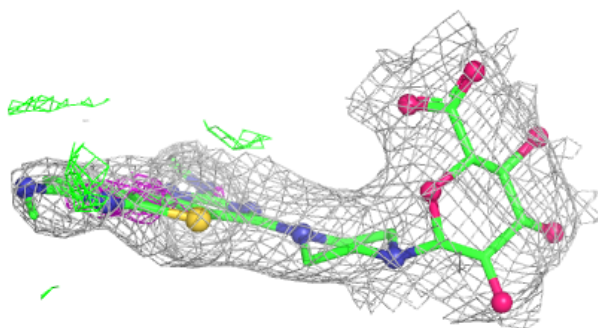
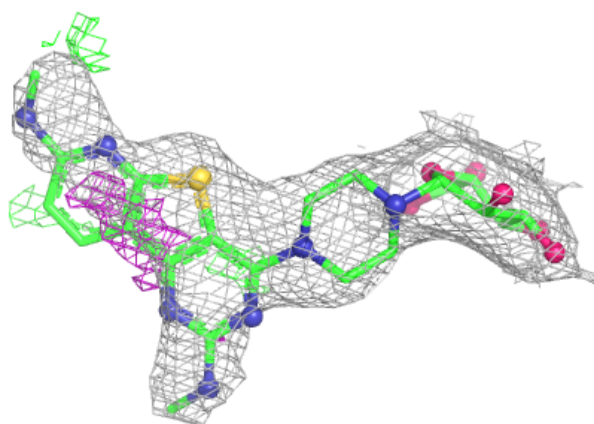
In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95<sup>th</sup> percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 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	E0V	A	701	35/35	0.82	0.24	53,70,101,103	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 E0V A 701:**

$2mF_o - DF_c$  (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.