

# Full wwPDB X-ray Structure Validation Report (i)

Oct 31, 2023 – 05:19 PM JST

PDB ID : 5GQI

Title : Crystal structure of Cypovirus Polyhedra mutant with deletion of Ala194 Authors : Abe, S.; Tabe, H.; Ijiri, H.; Yamashita, K.; Hirata, K.; Mori, H.; Ueno, T.

Deposited on : 2016-08-07

Resolution : 1.30 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 (i) 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 (1)) were used in the production of this report:

MolProbity : 4.02b-467

Mogul : 1.8.5 (274361), CSD as541be (2020)

Xtriage (Phenix) : 1.13 EDS : 2.36

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)

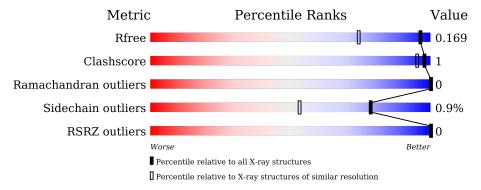
Validation Pipeline (wwPDB-VP) : 2.36

## 1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure: X- $RAY\ DIFFRACTION$ 

The reported resolution of this entry is 1.30 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 $(\# \mathrm{Entries})$	$\begin{array}{c} {\rm Similar\ resolution} \\ (\#{\rm Entries},{\rm resolution\ range}(\mathring{\rm A})) \end{array}$
$R_{free}$	130704	1058 (1.30-1.30)
Clashscore	141614	1101 (1.30-1.30)
Ramachandran outliers	138981	1058 (1.30-1.30)
Sidechain outliers	138945	1058 (1.30-1.30)
RSRZ outliers	127900	1029 (1.30-1.30)

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 <=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	247	91%	9%



# 2 Entry composition (i)

There are 7 unique types of molecules in this entry. The entry contains 2291 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 Polyhedrin.

Mol	Chain	Residues		Ato	oms			ZeroOcc	AltConf	Trace
1	A	247	Total 2032	C 1284	N 355	O 388	S 5	0	6	0

There are 3 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	ACE	-	acetylation	UNP P11041
A	193	GLY	SER	engineered mutation	UNP P11041
A	?	-	ALA	deletion	UNP P11041

• Molecule 2 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

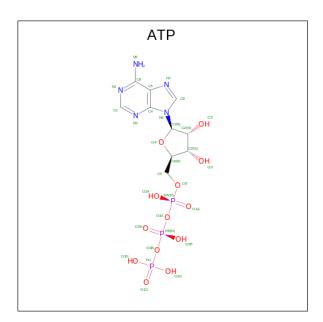
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total Cl 1 1	0	0

• Molecule 3 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	A	3	Total Mg 3 3	0	0

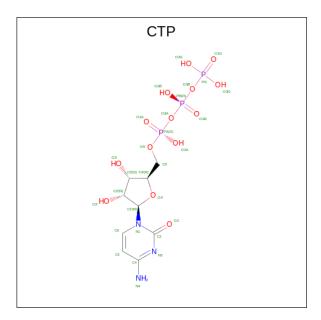
• Molecule 4 is ADENOSINE-5'-TRIPHOSPHATE (three-letter code: ATP) (formula:  $C_{10}H_{16}N_5O_{13}P_3$ ).





Mol	Chain	Residues	Atoms			ZeroOcc	AltConf		
4	Α	1	Total	С	N	О	Р	0	0
4	11	1	31	10	5	13	3	0	

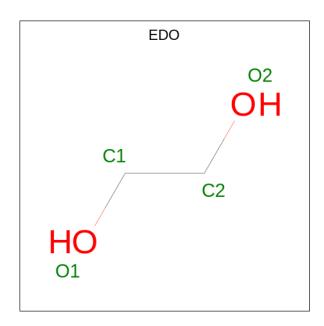
 $\bullet$  Molecule 5 is CYTIDINE-5'-TRIPHOSPHATE (three-letter code: CTP) (formula:  $C_9H_{16}N_3O_{14}P_3).$ 



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf		
5	A	1	Total 29		N 3		P 3	0	0

 $\bullet$  Molecule 6 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula:  $\mathrm{C_2H_6O_2}).$ 





Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
6	A	1	Total C O 4 2 2	0	0
6	A	1	Total C O 4 2 2	0	0
6	A	1	Total C O 4 2 2	0	0
6	A	1	Total C O 4 2 2	0	0

#### • Molecule 7 is water.

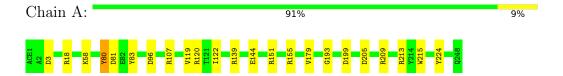
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
7	A	179	Total O 179 179	0	0



# 3 Residue-property plots (i)

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: Polyhedrin





# 4 Data and refinement statistics (i)

Property	Value	Source
Space group	I 2 3	Depositor
Cell constants	102.86Å 102.86Å 102.86Å	Domositon
a, b, c, $\alpha$ , $\beta$ , $\gamma$	$90.00^{\circ}$ $90.00^{\circ}$ $90.00^{\circ}$	Depositor
Resolution (Å)	41.99 - 1.30	Depositor
Resolution (A)	41.99 - 1.30	EDS
% Data completeness	100.0 (41.99-1.30)	Depositor
(in resolution range)	100.0 (41.99-1.30)	EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	(Not available)	Depositor
$< I/\sigma(I) > 1$	1.33 (at 1.30Å)	Xtriage
Refinement program	REFMAC 5.8.0135	Depositor
D.D.	0.141 , 0.169	Depositor
$R, R_{free}$	0.141 , $0.169$	DCC
$R_{free}$ test set	4402 reflections $(9.90%)$	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	6.9	Xtriage
Anisotropy	0.000	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$ , $B_{sol}(Å^2)$	0.40 , 51.2	EDS
L-test for twinning <sup>2</sup>	$< L >=0.49, < L^2>=0.32$	Xtriage
Estimated twinning fraction	0.033 for -l,-k,-h	Xtriage
$F_o, F_c$ correlation	0.97	EDS
Total number of atoms	2291	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	8.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 4.46% of the height of the origin peak. No significant pseudotranslation is detected.

<sup>&</sup>lt;sup>2</sup>Theoretical values of <|L|>,  $<L^2>$  for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.



<sup>&</sup>lt;sup>1</sup>Intensities estimated from amplitudes.

## 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: CL, EDO, ATP, ACE, MG, CTP

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).

Mal	Chain	Bo	nd lengths	Bond angles		
MIOI	Chain	RMSZ	# Z  > 5	RMSZ	# Z  > 5	
1	A	1.22	5/2099~(0.2%)	1.18	17/2846 (0.6%)	

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a maintenain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(A)	$\operatorname{Ideal}(\text{\AA})$
1	A	215	TRP	CE2-CZ2	5.82	1.49	1.39
1	A	193	GLY	C-N	5.67	1.47	1.34
1	A	144	GLU	CD-OE2	5.17	1.31	1.25
1	A	83	TYR	CD1-CE1	5.02	1.46	1.39
1	A	224	TYR	CD2-CE2	5.00	1.46	1.39

All (17) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$Observed(^o)$	$Ideal(^{o})$
1	A	209	ARG	NE-CZ-NH1	-6.78	116.91	120.30
1	A	155	ARG	NE-CZ-NH1	-6.55	117.02	120.30
1	A	107	ARG	NE-CZ-NH2	-6.30	117.15	120.30
1	A	151	ARG	NE-CZ-NH1	6.25	123.43	120.30
1	A	3	ASP	CB-CG-OD2	-6.22	112.70	118.30
1	A	139	ARG	NE-CZ-NH2	6.22	123.41	120.30
1	A	18	ARG	NE-CZ-NH2	-5.91	117.34	120.30
1	A	96	ASP	CB-CG-OD2	5.87	123.58	118.30



~ · · 1	c		
Continued	trom	nremous	naae.

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$\mathbf{Observed}(^o)$	$\operatorname{Ideal}({}^{o})$
1	A	3	ASP	CB-CG-OD1	5.73	123.46	118.30
1	A	120	ARG	NE-CZ-NH1	5.72	123.16	120.30
1	A	179	VAL	CG1-CB-CG2	5.70	120.02	110.90
1	A	120	ARG	NE-CZ-NH2	-5.67	117.47	120.30
1	A	205	ASP	CB-CG-OD1	5.52	123.27	118.30
1	A	213	ARG	NE-CZ-NH2	-5.45	117.58	120.30
1	A	139	ARG	NE-CZ-NH1	-5.25	117.67	120.30
1	A	80	TYR	CA-CB-CG	-5.20	103.52	113.40
1	A	193	GLY	O-C-N	-5.16	114.44	122.70

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	80	TYR	Sidechain

### 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	2032	0	1930	3	0
2	A	1	0	0	0	0
3	A	3	0	0	0	0
4	A	31	0	12	0	0
5	A	29	0	12	2	0
6	A	16	0	24	0	0
7	A	179	0	0	0	0
All	All	2291	0	1978	3	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 (3) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	$\begin{array}{c} {\rm Interatomic} \\ {\rm distance} \ ({\rm \AA}) \end{array}$	Clash overlap (Å)
1:A:81:ASP:HB2	5:A:306:CTP:H5	1.67	0.58



Continued from previous page...

Atom-1	Atom-2	$\begin{array}{c} {\rm Interatomic} \\ {\rm distance} \ ({\rm \AA}) \end{array}$	$egin{aligned}  ext{Clash} \  ext{overlap } ( ext{Å}) \end{aligned}$
1:A:119[A]:VAL:HG23	1:A:122:ILE:HD12	1.98	0.45
1:A:81:ASP:CB	5:A:306:CTP:H5	2.32	0.41

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	Perce	entiles
1	A	251/247 (102%)	244 (97%)	7 (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	Analysed Rotameric Ou		Percentiles
1	A	221/215 (103%)	219 (99%)	2 (1%)	78 53

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

Mol	Chain	Res	Type
1	A	58	LYS
1	A	199	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are



no such sidechains identified.

#### 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)

Of 10 ligands modelled in this entry, 4 are monoatomic - leaving 6 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).

N / - 1	Mol Type Chain Res		Link	Bond lengths			Bond angles			
Mol	Type	Chain	nes	LIIIK	Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
4	ATP	A	305	3	26,33,33	1.41	4 (15%)	31,52,52	1.79	7 (22%)
6	EDO	A	308	-	3,3,3	2.09	1 (33%)	2,2,2	0.81	0
6	EDO	A	310	-	3,3,3	1.17	0	2,2,2	0.77	0
6	EDO	A	309	-	3,3,3	1.05	0	2,2,2	1.19	0
6	EDO	A	307	-	3,3,3	0.53	0	2,2,2	0.89	0
5	CTP	A	306	3	26,30,30	1.67	5 (19%)	39,47,47	3.76	20 (51%)

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	ATP	A	305	3	-	4/18/38/38	0/3/3/3



 $Continued\ from\ previous\ page...$ 

Mol	$\mathbf{Type}$	Chain	$\operatorname{Res}$	Link	Chirals	Torsions	Rings
6	EDO	A	308	-	-	1/1/1/1	-
6	EDO	A	310	-	-	0/1/1/1	-
6	EDO	A	309	-	-	1/1/1/1	-
6	EDO	A	307	-	-	1/1/1/1	-
5	CTP	A	306	3	-	3/22/38/38	0/2/2/2

#### All (10) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$\operatorname{Observed}(\text{\AA})$	Ideal(Å)
5	A	306	CTP	C4-N3	-4.59	1.25	1.34
4	A	305	ATP	C5-C4	3.93	1.51	1.40
5	A	306	CTP	C6-C5	3.77	1.43	1.35
5	A	306	CTP	C4-N4	3.31	1.41	1.33
6	A	308	EDO	O2-C2	3.02	1.57	1.42
4	A	305	ATP	C2-N3	2.85	1.36	1.32
5	A	306	CTP	C2-N1	2.58	1.45	1.40
5	A	306	CTP	O4'-C1'	2.57	1.48	1.42
4	A	305	ATP	C2-N1	2.30	1.38	1.33
4	A	305	ATP	O4'-C1'	2.19	1.44	1.41

#### All (27) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$Observed(^o)$	$\operatorname{Ideal}({}^{\scriptscriptstyle o})$
5	A	306	CTP	C5-C4-N4	13.35	141.58	120.57
5	A	306	CTP	O2-C2-N3	-9.57	106.75	122.33
5	A	306	CTP	N4-C4-N3	-6.54	106.49	117.97
5	A	306	CTP	C6-C5-C4	6.34	127.73	117.50
5	A	306	CTP	C5-C4-N3	-5.52	111.93	121.33
5	A	306	CTP	C6-N1-C2	-4.84	112.10	120.49
5	A	306	CTP	N1-C2-N3	4.65	127.28	118.81
4	A	305	ATP	C2-N1-C6	4.36	126.21	118.75
4	A	305	ATP	N3-C2-N1	-4.28	121.99	128.68
5	A	306	CTP	C2'-C3'-C4'	3.71	109.85	102.64
5	A	306	CTP	O4'-C1'-N1	3.42	116.17	108.36
5	A	306	CTP	O2-C2-N1	3.38	125.88	118.89
5	A	306	CTP	C5-C6-N1	-3.15	116.53	121.81
5	A	306	CTP	O2'-C2'-C3'	-2.97	102.23	111.82
5	A	306	CTP	C1'-N1-C6	2.94	127.26	120.84
4	A	305	ATP	N6-C6-N1	2.74	124.26	118.57
5	A	306	CTP	O2'-C2'-C1'	-2.73	100.88	110.02
4	A	305	ATP	C1'-N9-C4	-2.72	121.86	126.64
5	A	306	CTP	O5'-PA-O1A	-2.71	98.48	109.07



Continued	trom	mmoninonic	maaa
COHABABACA		DIEUIUU	DUIUE
0 0 1000100000			

Mol	Chain	Res	Type	Atoms	$\mathbf{Z}$	$\mathbf{Observed}(^o)$	$Ideal(^{o})$
4	A	305	ATP	O2B-PB-O1B	2.69	125.52	112.24
4	A	305	ATP	C5-C6-N1	-2.56	114.54	120.35
5	A	306	CTP	C4-N3-C2	2.49	124.28	120.25
5	A	306	CTP	O3B-PG-O1G	-2.47	97.47	111.19
4	A	305	ATP	O3G-PG-O2G	2.31	116.48	107.64
5	A	306	CTP	O2A-PA-O5'	2.28	118.35	107.75
5	A	306	CTP	PB-O3B-PG	-2.17	125.38	132.83
5	A	306	CTP	O3G-PG-O1G	2.07	118.79	110.68

There are no chirality outliers.

All (10) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	305	ATP	PB-O3B-PG-O1G
5	A	306	CTP	PA-O3A-PB-O1B
6	A	307	EDO	O1-C1-C2-O2
6	A	309	EDO	O1-C1-C2-O2
6	A	308	EDO	O1-C1-C2-O2
4	A	305	ATP	PG-O3B-PB-O2B
4	A	305	ATP	PB-O3A-PA-O1A
4	A	305	ATP	PB-O3A-PA-O2A
5	A	306	CTP	PA-O3A-PB-O2B
5	A	306	CTP	PG-O3B-PB-O2B

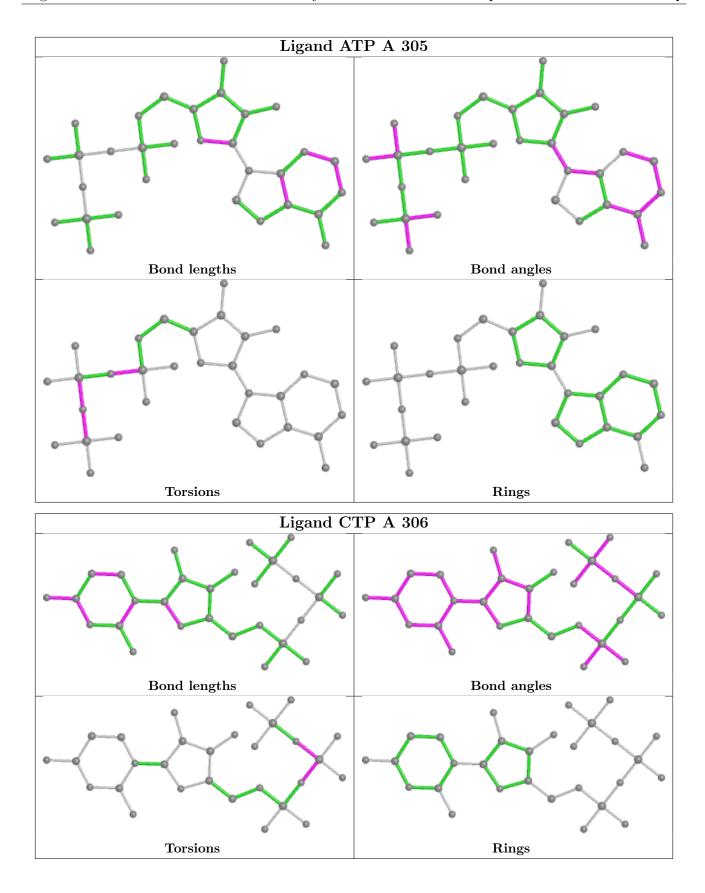
There are no ring outliers.

1 monomer is involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	A	306	CTP	2	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 then 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 (i)

### 6.1 Protein, DNA and RNA chains (i)

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,  $95^{th}$  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 $>$	$\#\text{RSRZ}{>}2$	$OWAB(Å^2)$	Q<0.9
1	A	246/247 (99%)	-0.61	0 100 100	4, 6, 13, 21	0

There are no RSRZ outliers to report.

#### 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.

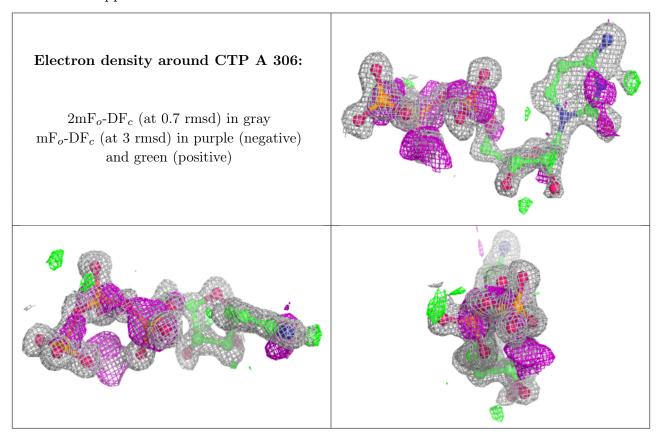
### 6.4 Ligands (i)

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,  $95^{th}$  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.

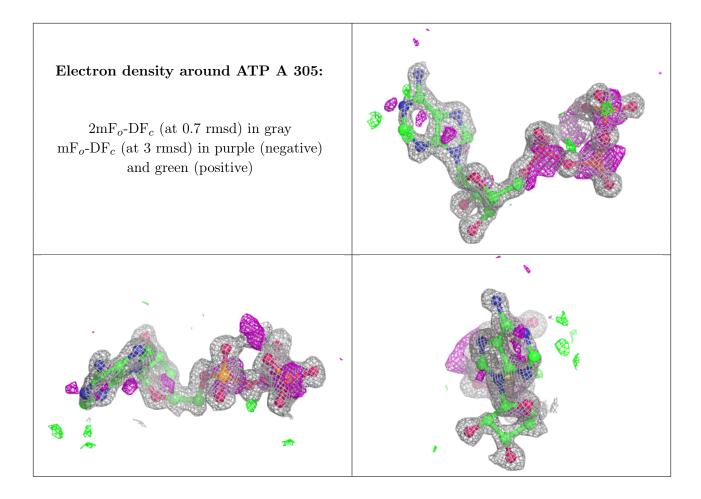
Mol	Type	Chain	Res	Atoms	RSCC	RSR	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q<0.9
6	EDO	A	307	4/4	0.90	0.14	23,25,25,27	0
6	EDO	A	310	4/4	0.91	0.10	18,19,20,20	0
5	CTP	A	306	29/29	0.93	0.19	10,18,28,34	0
6	EDO	A	308	4/4	0.95	0.10	7,9,11,17	0
6	EDO	A	309	4/4	0.95	0.07	9,13,14,14	0
4	ATP	A	305	31/31	0.95	0.20	15,22,29,30	0
3	MG	A	303	1/1	0.97	0.20	18,18,18,18	0
3	MG	A	302	1/1	0.98	0.29	17,17,17,17	0
3	MG	A	304	1/1	0.99	0.14	17,17,17,17	1
2	CL	A	301	1/1	1.00	0.03	7,7,7,7	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.

