



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 05:59 PM UTC

PDB ID : 8OXV / pdb_00008oxv
Title : Transglutaminase 3 zymogen in complex with DH patient-derived Fab DH63-B02
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Deposited on : 2023-05-02
Resolution : 1.80 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

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
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

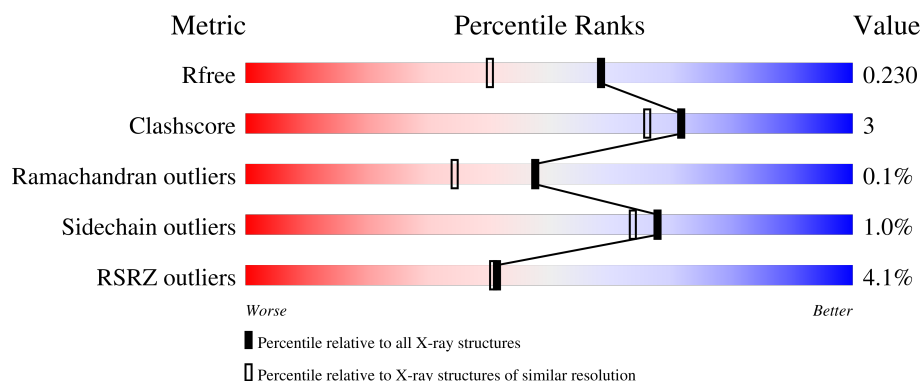
1 Overall quality at a glance

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	693	2% 87% 11% ..
2	B	225	13% 88% 11% .
3	C	216	2% 95% 5%

2 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 18710 atoms, of which 8599 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 Protein-glutamine gamma-glutamyltransferase E 27 kDa non-catalytic chain.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	681	Total	C	H	N	O	S	137	7	0
			10666	3382	5305	926	1026	27			

- Molecule 2 is a protein called Antibody Fab fragment Heavy chain.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
2	B	225	Total	C	H	N	O	S	73	5	0
			3431	1085	1691	299	348	8			

- Molecule 3 is a protein called Antibody Fab fragment light chain.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
3	C	216	Total	C	H	N	O	S	74	3	0
			3233	1021	1585	275	345	7			

- Molecule 4 is CALCIUM ION (CCD ID: CA) (formula: Ca) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	3	Total	Ca	0	0
			3	3		

- Molecule 5 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

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

- Molecule 6 is 1,2-ETHANEDIOL (CCD ID: EDO) (formula: C₂H₆O₂).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
6	B	1	Total	C	H	O	1	0
			10	2	6	2		
6	B	1	Total	C	H	O	1	0
			10	2	6	2		
6	C	1	Total	C	H	O	1	0
			10	2	6	2		

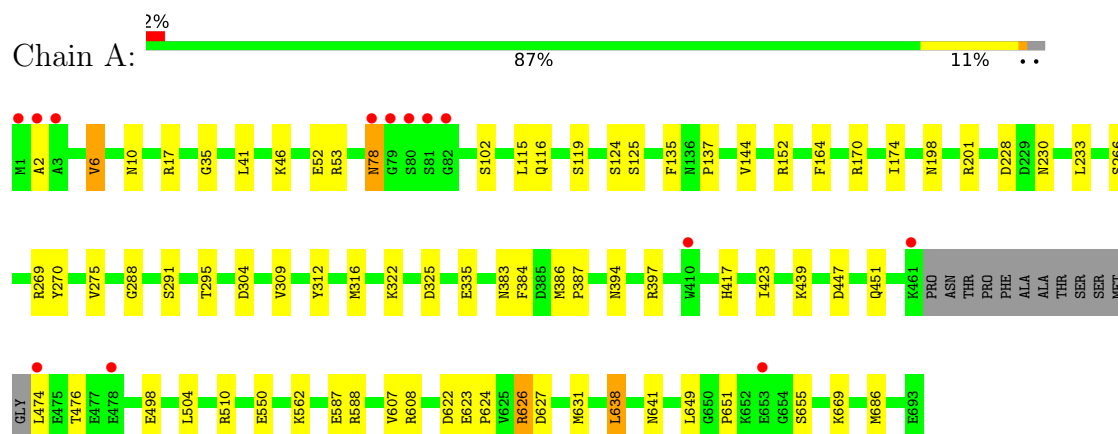
- Molecule 7 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	A	808	Total	O	0	0
			808	808		
7	B	199	Total	O	0	0
			199	199		
7	C	339	Total	O	0	0
			339	339		

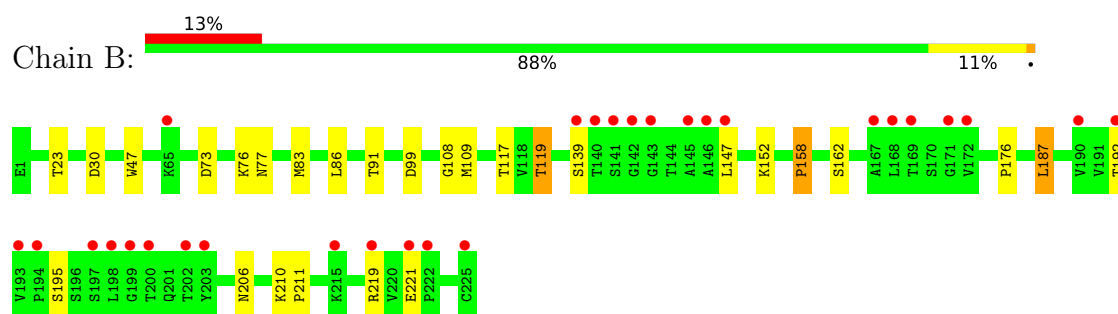
3 Residue-property plots [i](#)

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.

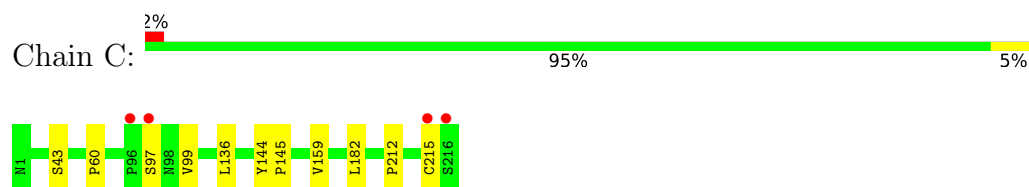
- Molecule 1: Protein-glutamine gamma-glutamyltransferase E 27 kDa non-catalytic chain



- Molecule 2: Antibody Fab fragment Heavy chain



- Molecule 3: Antibody Fab fragment light chain



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	81.66Å 94.04Å 91.14Å 90.00° 93.46° 90.00°	Depositor
Resolution (Å)	41.81 – 1.80 41.81 – 1.80	Depositor EDS
% Data completeness (in resolution range)	99.9 (41.81-1.80) 97.4 (41.81-1.80)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.15 (at 1.79Å)	Xtriage
Refinement program	REFMAC 5.8.0405	Depositor
R, R_{free}	0.185 , 0.229 0.184 , 0.230	Depositor DCC
R_{free} test set	6327 reflections (4.97%)	wwPDB-VP
Wilson B-factor (Å ²)	27.5	Xtriage
Anisotropy	0.112	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.38 , 54.5	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	0.96	EDS
Total number of atoms	18710	wwPDB-VP
Average B, all atoms (Å ²)	39.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.80% 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: EDO, CL, CA

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	0.78	0/5481	1.14	8/7430 (0.1%)
2	B	0.74	0/1780	1.16	7/2421 (0.3%)
3	C	0.82	0/1690	1.17	1/2305 (0.0%)
All	All	0.78	0/8951	1.15	16/12156 (0.1%)

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 mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	5

There are no bond length outliers.

All (16) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	73	ASP	CA-CB-CG	7.28	119.88	112.60
1	A	641	ASN	CA-CB-CG	7.02	119.62	112.60
1	A	6	VAL	CB-CA-C	-6.83	102.44	110.91
1	A	152	ARG	CB-CA-C	-6.16	100.57	110.79
2	B	158	PRO	N-CA-CB	-6.01	95.99	102.60
1	A	266	SER	CB-CA-C	5.89	117.62	108.61
1	A	394	ASN	CA-CB-CG	-5.61	106.99	112.60
2	B	30	ASP	CA-CB-CG	5.50	118.09	112.60
1	A	230	ASN	CB-CA-C	-5.39	104.23	111.89
2	B	192	THR	CB-CA-C	5.39	118.93	110.19
2	B	152	LYS	CB-CA-C	-5.37	100.42	109.50
1	A	304	ASP	CA-CB-CG	5.30	117.90	112.60
2	B	23	THR	CA-CB-OG1	-5.25	101.72	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	60	PRO	CB-CA-C	-5.20	104.73	111.39
2	B	176	PRO	N-CA-CB	5.15	108.23	103.39
1	A	164	PHE	CA-CB-CG	-5.13	108.67	113.80

There are no chirality outliers.

All (5) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	17	ARG	Sidechain
1	A	510	ARG	Sidechain
1	A	53	ARG	Sidechain
1	A	588	ARG	Sidechain
1	A	626	ARG	Sidechain

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	5361	5305	5295	40	0
2	B	1740	1691	1684	14	0
3	C	1648	1585	1580	4	0
4	A	3	0	0	0	0
5	A	1	0	0	0	0
6	B	8	12	12	0	0
6	C	4	6	6	0	0
7	A	808	0	0	9	0
7	B	199	0	0	1	0
7	C	339	0	0	0	0
All	All	10111	8599	8577	57	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 3.

All (57) 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)
2:B:117:THR:OG1	7:B:401:HOH:O	2.05	0.73
1:A:631[B]:MET:SD	7:A:1283:HOH:O	2.50	0.70
1:A:78:ASN:OD1	7:A:801:HOH:O	2.14	0.66
1:A:649:LEU:HD11	1:A:655:SER:HB2	1.77	0.66
2:B:187:LEU:HD12	2:B:187:LEU:C	2.22	0.64
2:B:139:SER:O	2:B:195:SER:HB3	1.98	0.62
1:A:198[A]:ASN:OD1	1:A:201:ARG:NH2	2.33	0.61
2:B:147:LEU:C	2:B:147:LEU:HD12	2.28	0.58
3:C:136:LEU:HD12	3:C:182:LEU:HD23	1.86	0.57
1:A:233:LEU:HD11	1:A:275:VAL:HG12	1.87	0.56
1:A:170:ARG:HD2	7:A:1110:HOH:O	2.06	0.55
1:A:447:ASP:O	1:A:451:GLN:HG3	2.09	0.52
2:B:83:MET:HE2	2:B:86:LEU:HD21	1.91	0.52
1:A:439:LYS:HE2	7:A:802:HOH:O	2.10	0.50
1:A:386:MET:N	1:A:387:PRO:CD	2.75	0.50
1:A:562:LYS:HG2	1:A:562:LYS:O	2.11	0.49
1:A:638:LEU:HD23	1:A:638:LEU:N	2.27	0.49
1:A:607:VAL:HG12	1:A:608:ARG:HG3	1.94	0.49
2:B:47:TRP:CG	3:C:99:VAL:HB	2.47	0.49
1:A:622:ASP:C	1:A:651:PRO:HB3	2.38	0.48
1:A:6:VAL:CG2	1:A:115:LEU:HD23	2.43	0.48
1:A:309:VAL:HG12	1:A:325:ASP:HB3	1.96	0.47
1:A:35:GLY:HA2	1:A:102:SER:O	2.16	0.46
1:A:669:LYS:NZ	7:A:803:HOH:O	2.24	0.46
1:A:52:GLU:OE2	1:A:119:SER:OG	2.29	0.46
1:A:115:LEU:O	1:A:125:SER:HA	2.16	0.46
3:C:212:PRO:O	3:C:215:CYS:SG	2.74	0.46
1:A:312:TYR:CD2	1:A:322:LYS:HD3	2.52	0.45
3:C:144:TYR:HA	3:C:145:PRO:C	2.42	0.45
1:A:135:PHE:HB3	1:A:144:VAL:HG21	1.98	0.44
2:B:147:LEU:C	2:B:147:LEU:CD1	2.90	0.44
2:B:162:SER:OG	2:B:206:ASN:OD1	2.34	0.44
2:B:210:LYS:N	2:B:211:PRO:CD	2.80	0.44
1:A:476:THR:HG21	7:A:1521:HOH:O	2.17	0.43
2:B:99:ASP:HA	2:B:108:GLY:O	2.18	0.43
2:B:187:LEU:C	2:B:187:LEU:CD1	2.90	0.43
1:A:291:SER:HA	1:A:335:GLU:O	2.17	0.43
1:A:116:GLN:HA	1:A:124:SER:O	2.19	0.43
2:B:219:ARG:HG2	2:B:221[B]:GLU:HG2	2.01	0.42
2:B:91:THR:HG23	2:B:119:THR:HA	2.00	0.42
1:A:626:ARG:HG3	1:A:627:ASP:OD2	2.19	0.42
1:A:295:THR:O	1:A:423:ILE:HA	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:174:ILE:HD12	7:A:1226:HOH:O	2.19	0.42
1:A:417:HIS:CD2	1:A:417:HIS:C	2.97	0.42
1:A:623:GLU:HB2	1:A:624:PRO:CD	2.50	0.42
2:B:76:LYS:O	2:B:77:ASN:C	2.63	0.41
1:A:2:ALA:O	1:A:46:LYS:HD2	2.20	0.41
1:A:316:MET:HE1	7:A:1297:HOH:O	2.19	0.41
1:A:474:LEU:HD23	1:A:474:LEU:O	2.21	0.41
1:A:10:ASN:HB3	1:A:41:LEU:HB2	2.02	0.41
1:A:504:LEU:CD2	1:A:550:GLU:HG2	2.51	0.41
1:A:137:PRO:HG3	1:A:288:GLY:O	2.21	0.40
1:A:397:ARG:NH2	1:A:587:GLU:OE2	2.55	0.40
1:A:498:GLU:HG2	7:A:1218:HOH:O	2.21	0.40
1:A:607:VAL:O	1:A:608:ARG:HB2	2.21	0.40
1:A:269:ARG:HA	1:A:270:TYR:HA	1.80	0.40
1:A:383:ASN:HA	1:A:384:PHE:HA	1.78	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	684/693 (99%)	658 (96%)	25 (4%)	1 (0%)	48	34
2	B	228/225 (101%)	217 (95%)	11 (5%)	0	100	100
3	C	217/216 (100%)	209 (96%)	8 (4%)	0	100	100
All	All	1129/1134 (100%)	1084 (96%)	44 (4%)	1 (0%)	48	34

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	228	ASP

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	593/595 (100%)	589 (99%)	4 (1%)	76	73
2	B	196/191 (103%)	192 (98%)	4 (2%)	48	38
3	C	192/189 (102%)	189 (98%)	3 (2%)	55	47
All	All	981/975 (101%)	970 (99%)	11 (1%)	68	60

All (11) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	78	ASN
1	A	638	LEU
1	A	686[A]	MET
1	A	686[B]	MET
2	B	109	MET
2	B	119	THR
2	B	158	PRO
2	B	187	LEU
3	C	43	SER
3	C	97	SER
3	C	159	VAL

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	78	ASN
1	A	230	ASN
2	B	77	ASN

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 7 ligands modelled in this entry, 4 are monoatomic - leaving 3 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	$\# Z > 2$
6	EDO	C	301	-	3,3,3	0.39	0	2,2,2	0.39	0
6	EDO	B	301	-	3,3,3	0.61	0	2,2,2	0.59	0
6	EDO	B	302	-	3,3,3	0.12	0	2,2,2	0.06	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
6	EDO	C	301	-	-	1/1/1/1	-
6	EDO	B	301	-	-	1/1/1/1	-
6	EDO	B	302	-	-	1/1/1/1	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (3) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
6	B	301	EDO	O1-C1-C2-O2
6	B	302	EDO	O1-C1-C2-O2
6	C	301	EDO	O1-C1-C2-O2

There are no ring outliers.

No monomer is involved in short contacts.

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	681/693 (98%)	-0.04	13 (1%) 66 66	9, 34, 64, 122	7 (1%)
2	B	225/225 (100%)	0.66	29 (12%) 7 6	14, 42, 90, 146	5 (2%)
3	C	216/216 (100%)	-0.28	4 (1%) 66 66	13, 29, 53, 132	3 (1%)
All	All	1122/1134 (98%)	0.06	46 (4%) 41 41	9, 34, 68, 146	15 (1%)

All (46) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	79	GLY	4.8
1	A	474	LEU	4.2
2	B	146	ALA	3.9
1	A	82	GLY	3.8
2	B	139	SER	3.7
2	B	190	VAL	3.5
1	A	2	ALA	3.5
2	B	221[A]	GLU	3.4
2	B	142	GLY	3.2
2	B	198	LEU	3.2
2	B	140	THR	3.1
1	A	78	ASN	3.1
1	A	461	LYS	3.1
2	B	172	VAL	3.0
1	A	80	SER	3.0
2	B	145	ALA	3.0
2	B	168	LEU	2.9
2	B	169	THR	2.9
3	C	97	SER	2.6
2	B	141	SER	2.5
2	B	171	GLY	2.5
2	B	219	ARG	2.5
1	A	1	MET	2.5

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Mol	Chain	Res	Type	RSRZ
2	B	222	PRO	2.5
2	B	147	LEU	2.4
2	B	143	GLY	2.4
3	C	96	PRO	2.4
3	C	215	CYS	2.4
2	B	194	PRO	2.4
2	B	199	GLY	2.4
3	C	216	SER	2.3
2	B	193	VAL	2.3
2	B	225	CYS	2.3
2	B	203	TYR	2.3
1	A	81	SER	2.3
1	A	410	TRP	2.2
2	B	197	SER	2.2
1	A	478	GLU	2.2
1	A	3	ALA	2.2
2	B	215	LYS	2.2
1	A	653	GLU	2.2
2	B	65	LYS	2.2
2	B	192	THR	2.2
2	B	202	THR	2.1
2	B	167	ALA	2.1
2	B	200	THR	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.

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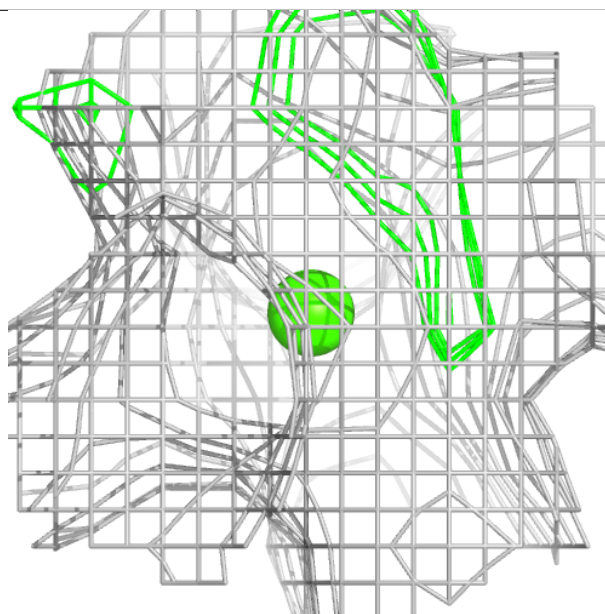
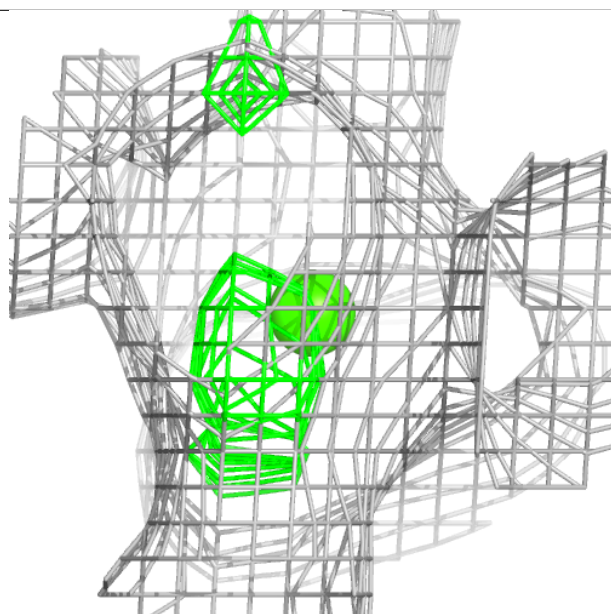
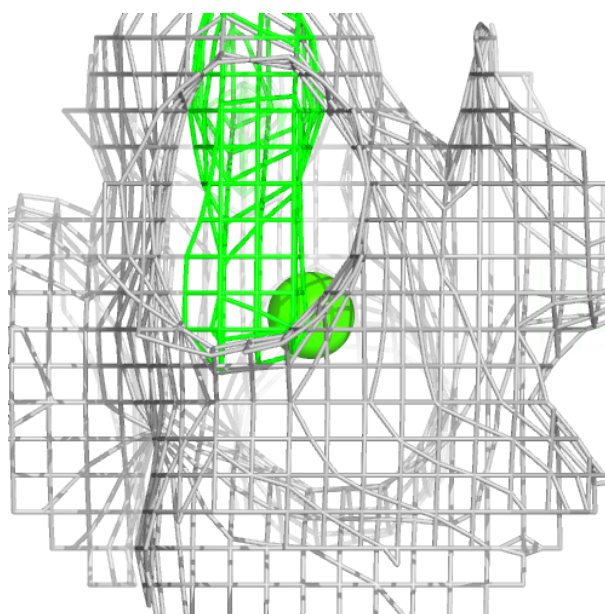
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
6	EDO	B	301	4/4	0.82	0.13	54,60,66,66	1
6	EDO	B	302	4/4	0.86	0.12	68,71,74,75	1
6	EDO	C	301	4/4	0.90	0.14	53,58,62,64	1
5	CL	A	704	1/1	0.97	0.11	45,45,45,45	0
4	CA	A	702	1/1	0.98	0.04	37,37,37,37	0
4	CA	A	703	1/1	0.98	0.05	35,35,35,35	0
4	CA	A	701	1/1	0.98	0.03	20,20,20,20	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.

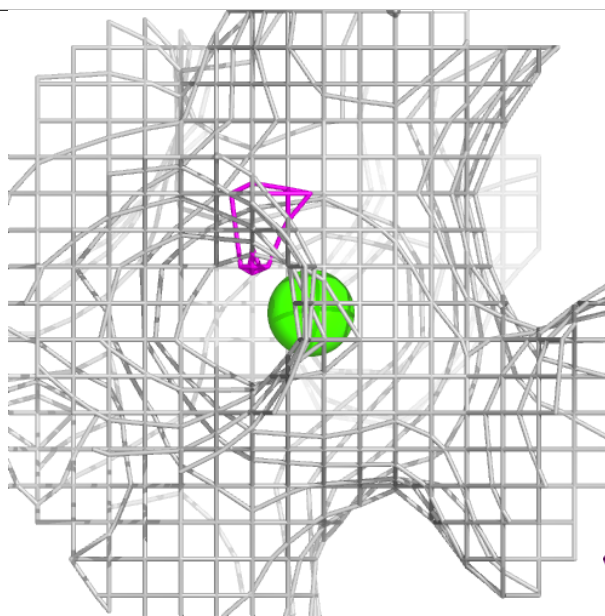
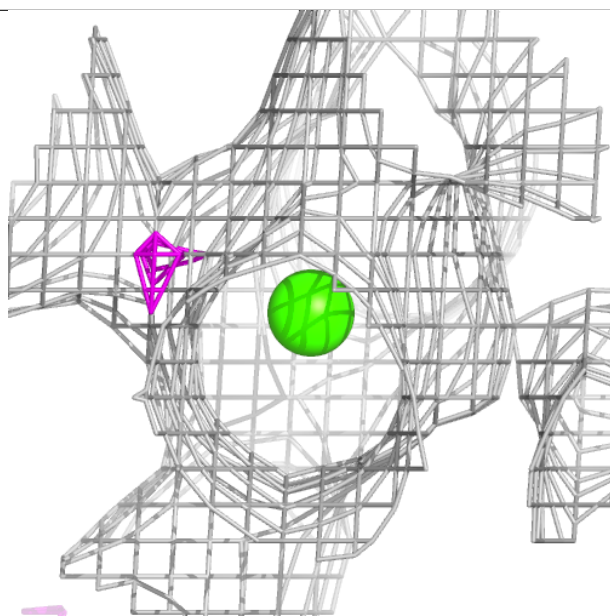
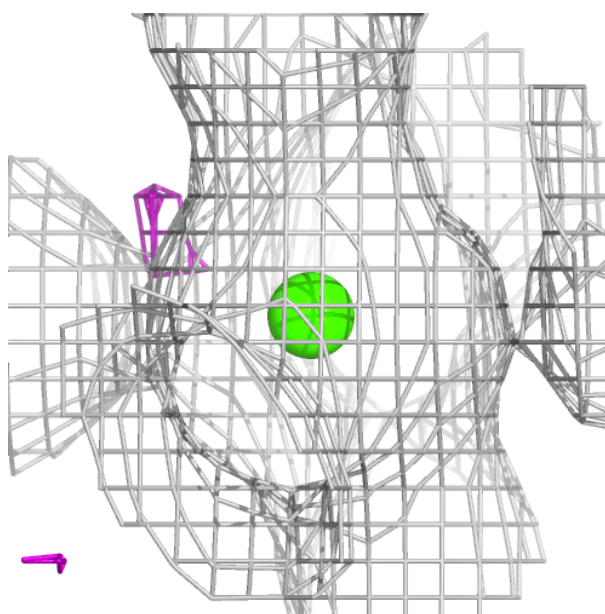
Electron density around CA A 702:

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



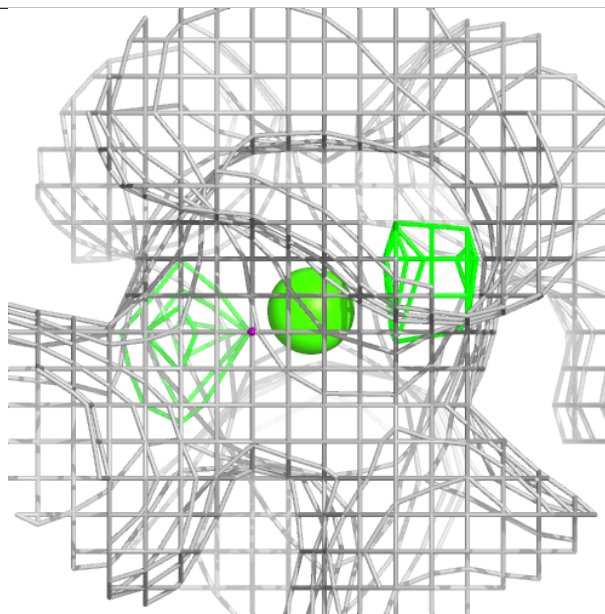
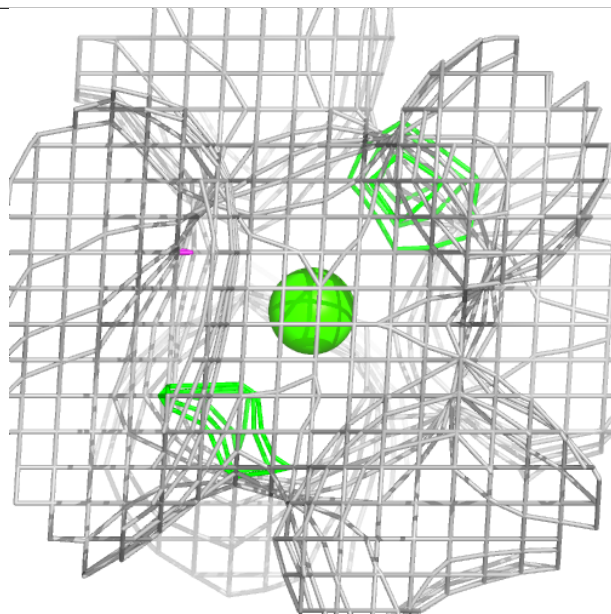
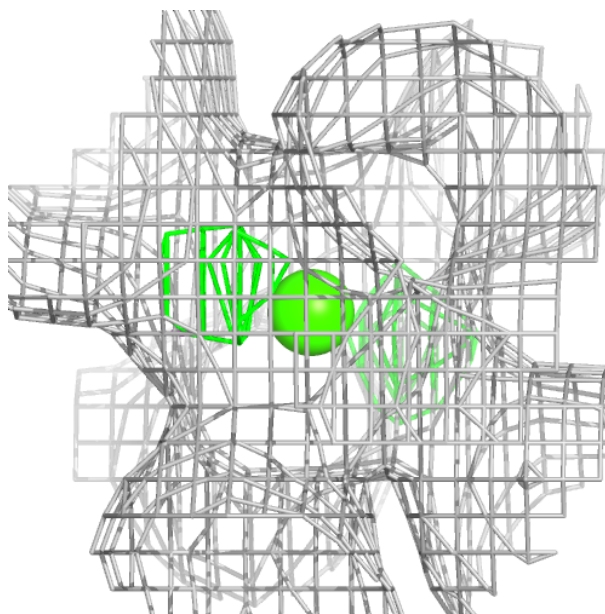
Electron density around CA A 703:

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



Electron density around CA 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 ⓘ

There are no such residues in this entry.