



wwPDB X-ray Structure Validation Summary Report ⓘ

Feb 1, 2016 – 07:15 PM GMT

PDB ID : 4OC3
Title : X-ray structure of of human glutamate carboxypeptidase II (GCPII) in a complex with CFIBzL, a urea-based inhibitor N²-{[(1S)-1-carboxy-2-(furan-2-yl)ethyl]carbamoyl}-N⁶-(4-iodobenzoyl)-L-lysine
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Deposited on : 2014-01-08
Resolution : 1.79 Å(reported)

This is a wwPDB X-ray Structure Validation Summary Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<http://wwpdb.org/validation/2016/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

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

MolProbity	:	4.02b-467
Mogul	:	1.7 (RC4), CSD as536be (2015)
Xtriage (Phenix)	:	1.9-1692
EDS	:	rb-20026688
Percentile statistics	:	20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac	:	5.8.0135
CCP4	:	6.5.0
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	trunk26865

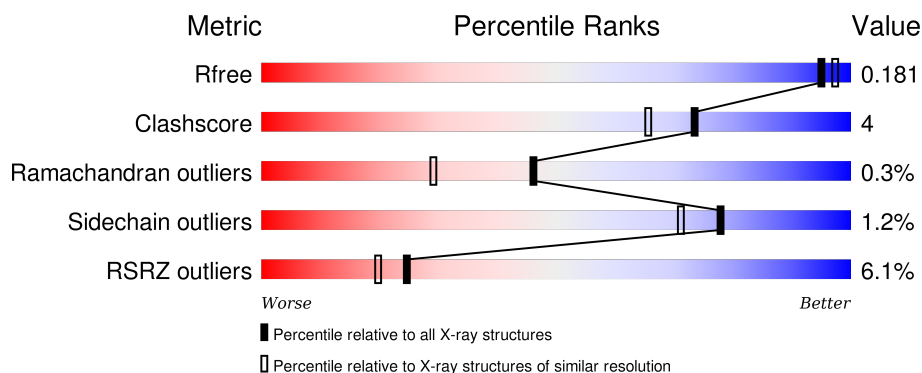
1 Overall quality at a glance ⓘ

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.79 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}	91344	4533 (1.80-1.80)
Clashscore	102246	5383 (1.80-1.80)
Ramachandran outliers	100387	5320 (1.80-1.80)
Sidechain outliers	100360	5319 (1.80-1.80)
RSRZ outliers	91569	4547 (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 on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. 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	709	<div> <div>6%</div> <div>87%</div> <div>11%</div> </div>

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	NAG	A	802	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	NAG	A	808	-	-	-	X
5	NAG	A	809	-	-	-	X

2 Entry composition [i](#)

There are 11 unique types of molecules in this entry. The entry contains 6495 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 Glutamate carboxypeptidase 2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	694	5899	3784	988	1103	24	0	70	0

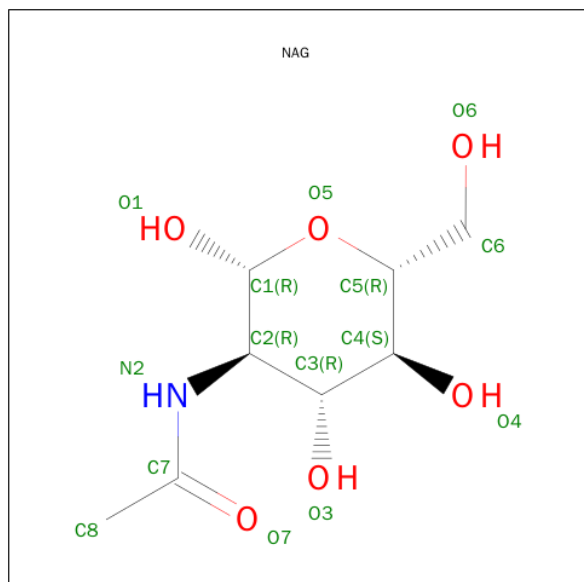
There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	42	ARG	-	EXPRESSION TAG	UNP Q04609
A	43	SER	-	EXPRESSION TAG	UNP Q04609

- Molecule 2 is a polymer of unknown type called SUGAR (2-MER).

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	N	O		
2	A	2	28	16	2	10	0	0

- Molecule 3 is SUGAR (N-ACETYL-D-GLUCOSAMINE) (three-letter code: NAG) (formula: $C_8H_{15}NO_6$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	N	O	0	0
			14	8	1	5		
3	A	1	Total	C	N	O	0	0
			14	8	1	5		
3	A	1	Total	C	N	O	0	0
			14	8	1	5		

- Molecule 4 is a polymer of unknown type called SUGAR (3-MER).

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
4	A	3	Total	C	N	O	0	0
			38	22	2	14		

- Molecule 5 is a polymer of unknown type called SUGAR (3-MER).

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
5	A	3	Total	C	N	O	0	0
			39	22	2	15		

- Molecule 6 is a polymer of unknown type called SUGAR (4-MER).

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
6	A	4	Total	C	N	O	0	0
			50	28	2	20		

- Molecule 7 is ZINC ION (three-letter code: ZN) (formula: Zn).

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

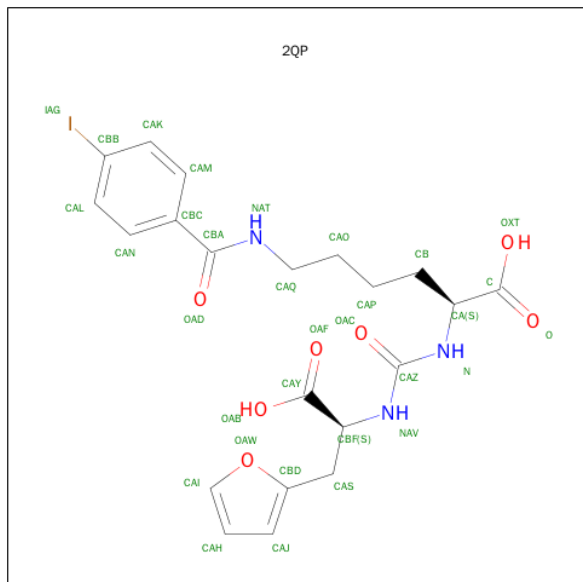
- Molecule 8 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
8	A	1	Total	Ca	0	0
			1	1		

- Molecule 9 is CHLORIDE ION (three-letter code: CL) (formula: Cl).

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

- Molecule 10 is N 2 -{[(1S)-1-CARBOXY-2-(FURAN-2-YL)ETHYL]CARBAMOYL}-N 6 -(4-IODOBENZOYL)-L-LYSINE (three-letter code: 2QP) (formula: C₂₁H₂₄IN₃O₇).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
10	A	1	Total	C	I	N	O	0	0
			32	21	1	3	7		

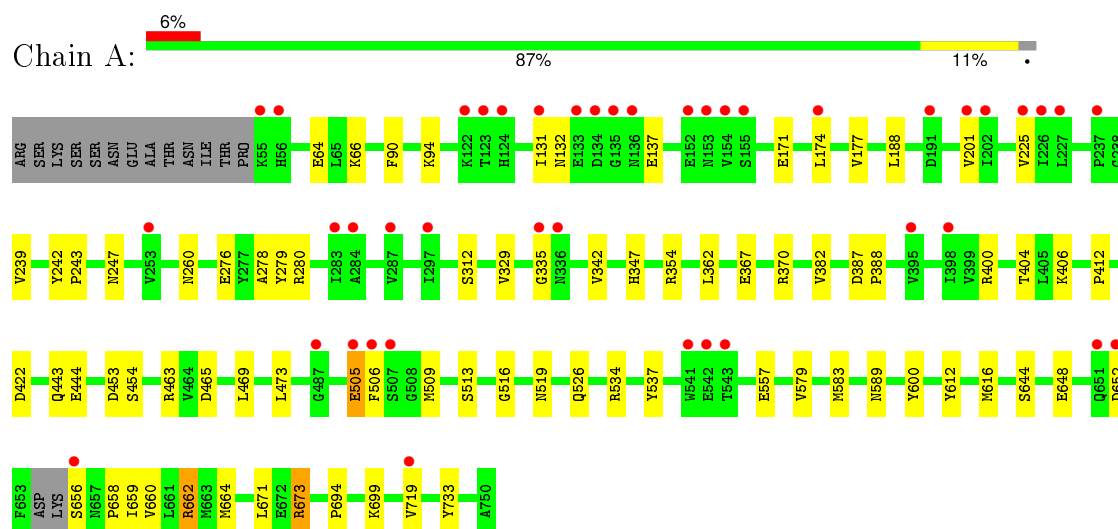
- Molecule 11 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
11	A	363	Total	O	0	0
			363	363		

3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors 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 ($\text{RSRZ} > 2$). 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: Glutamate carboxypeptidase 2



4 Data and refinement statistics

Property	Value	Source
Space group	I 2 2 2	Depositor
Cell constants a, b, c, α , β , γ	101.57Å 130.43Å 159.02Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	29.52 – 1.79 29.53 – 1.79	Depositor EDS
% Data completeness (in resolution range)	97.3 (29.52-1.79) 97.3 (29.53-1.79)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	5.02 (at 1.79Å)	Xtriage
Refinement program	REFMAC 5.5.0109	Depositor
R, R_{free}	0.161 , 0.181 0.162 , 0.181	Depositor DCC
R_{free} test set	1429 reflections (1.51%)	DCC
Wilson B-factor (Å ²)	23.3	Xtriage
Anisotropy	0.021	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.37 , 50.9	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Outliers	0 of 96068 reflections	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	6495	wwPDB-VP
Average B, all atoms (Å ²)	29.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.28% 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, 0.375 respectively for untwinned datasets, and 0.333, 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: ZN, BMA, NAG, 2QP, CL, CA, FUC, MAN

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	0.95	1/6216 (0.0%)	0.82	6/8413 (0.1%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	557	GLU	CB-CG	-6.17	1.40	1.52

The worst 5 of 6 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	370	ARG	NE-CZ-NH1	5.96	123.28	120.30
1	A	673	ARG	NE-CZ-NH2	-5.75	117.42	120.30
1	A	174[A]	LEU	CA-CB-CG	5.33	127.57	115.30
1	A	174[B]	LEU	CA-CB-CG	5.33	127.57	115.30
1	A	422	ASP	CB-CG-OD1	5.16	122.94	118.30

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	5899	0	5759	49	0
2	A	28	0	25	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	A	42	0	39	1	0
4	A	38	0	34	0	0
5	A	39	0	34	0	0
6	A	50	0	43	0	0
7	A	2	0	0	0	0
8	A	1	0	0	0	0
9	A	1	0	0	0	0
10	A	32	0	22	3	0
11	A	363	0	0	5	0
All	All	6495	0	5956	50	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 4.

The worst 5 of 50 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:260[A]:ASN:ND2	11:A:1217:HOH:O	1.64	1.24
1:A:660[A]:VAL:O	1:A:664[A]:MET:HG2	1.39	1.20
1:A:90:PHE:CE2	1:A:94:LYS:HE2	2.15	0.81
1:A:362:LEU:CD1	1:A:406:LYS:HD2	2.15	0.76
1:A:733:TYR:HE2	11:A:1154:HOH:O	1.70	0.74

There are no symmetry-related clashes.

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	756/709 (107%)	735 (97%)	19 (2%)	2 (0%)	46 29

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	382	VAL
1	A	335	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	658/605 (109%)	650 (99%)	8 (1%)	78	71

5 of 8 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	600	TYR
1	A	673	ARG
1	A	662[A]	ARG
1	A	537	TYR
1	A	652	ASP

Some 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](#)

12 carbohydrates are 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	NAG	A	801	1,2	14,14,15	0.55	0	15,19,21	0.77	0
2	NAG	A	802	2	14,14,15	0.80	0	15,19,21	1.38	1 (6%)
4	NAG	A	804	1,4	14,14,15	0.82	0	15,19,21	0.88	0
4	NAG	A	805	4	14,14,15	0.43	0	15,19,21	1.08	0
4	FUC	A	806	4	10,10,11	0.86	0	14,14,16	1.41	1 (7%)
5	NAG	A	809	1,5	14,14,15	0.89	1 (7%)	15,19,21	1.09	2 (13%)
5	NAG	A	810	5	14,14,15	0.60	0	15,19,21	1.24	2 (13%)
5	BMA	A	811	5	11,11,12	0.80	0	14,15,17	1.37	2 (14%)
6	NAG	A	812	1,6	14,14,15	0.82	0	15,19,21	1.39	3 (20%)
6	NAG	A	813	6	14,14,15	0.67	0	15,19,21	1.80	4 (26%)
6	BMA	A	814	6	11,11,12	0.47	0	14,15,17	0.83	0
6	MAN	A	815	6	11,11,12	0.59	0	14,15,17	1.20	2 (14%)

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	NAG	A	801	1,2	-	0/6/23/26	0/1/1/1
2	NAG	A	802	2	-	0/6/23/26	0/1/1/1
4	NAG	A	804	1,4	-	0/6/23/26	0/1/1/1
4	NAG	A	805	4	-	0/6/23/26	0/1/1/1
4	FUC	A	806	4	-	0/0/17/20	0/1/1/1
5	NAG	A	809	1,5	-	0/6/23/26	0/1/1/1
5	NAG	A	810	5	-	0/6/23/26	0/1/1/1
5	BMA	A	811	5	-	0/2/19/22	0/1/1/1
6	NAG	A	812	1,6	-	0/6/23/26	0/1/1/1
6	NAG	A	813	6	-	0/6/23/26	0/1/1/1
6	BMA	A	814	6	-	0/2/19/22	0/1/1/1
6	MAN	A	815	6	-	0/2/19/22	0/1/1/1

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	A	809	NAG	O7-C7	2.21	1.28	1.23

The worst 5 of 17 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	A	813	NAG	C1-O5-C5	-4.21	106.91	112.25
6	A	813	NAG	C3-C4-C5	-2.75	105.41	110.20
6	A	812	NAG	O4-C4-C5	-2.68	102.13	109.24
6	A	812	NAG	C2-N2-C7	-2.61	119.69	123.04
6	A	813	NAG	O6-C6-C5	-2.45	103.24	111.33

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.6 Ligand geometry

Of 8 ligands modelled in this entry, 4 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
3	NAG	A	803	1	14,14,15	0.73	0	15,19,21	1.50	3 (20%)
3	NAG	A	807	1	14,14,15	0.43	0	15,19,21	1.97	3 (20%)
3	NAG	A	808	1	14,14,15	0.64	0	15,19,21	1.70	5 (33%)
10	2QP	A	820	7	25,33,33	2.16	7 (28%)	28,43,43	3.44	16 (57%)

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	NAG	A	803	1	-	0/6/23/26	0/1/1/1
3	NAG	A	807	1	-	0/6/23/26	0/1/1/1
3	NAG	A	808	1	-	0/6/23/26	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
10	2QP	A	820	7	-	0/23/32/32	0/1/2/2

The worst 5 of 7 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	A	820	2QP	CAJ-CBD	-3.33	1.31	1.39
10	A	820	2QP	CAH-CAI	-2.16	1.32	1.38
10	A	820	2QP	CAS-CBD	2.29	1.54	1.50
10	A	820	2QP	CAL-CAN	2.58	1.43	1.38
10	A	820	2QP	CAK-CAM	3.26	1.44	1.38

The worst 5 of 27 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
10	A	820	2QP	CAK-CBB-CAL	-7.00	109.92	120.66
10	A	820	2QP	OAD-CBA-NAT	-5.91	110.16	122.58
10	A	820	2QP	CAM-CBC-CAN	-3.75	113.03	118.60
10	A	820	2QP	OAD-CBA-CBC	-3.34	115.26	120.97
10	A	820	2QP	CAO-CAQ-NAT	-2.85	103.85	112.19

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

2 monomers are involved in 4 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	803	NAG	1	0
10	A	820	2QP	3	0

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, 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	694/709 (97%)	0.11	42 (6%) 25 20	14, 26, 47, 65	1 (0%)

The worst 5 of 42 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	719[A]	VAL	6.1
1	A	506	PHE	5.0
1	A	55	LYS	4.6
1	A	153	ASN	4.5
1	A	505	GLU	4.0

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](#)

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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors(Å ²)	Q<0.9
2	NAG	A	802	14/15	0.69	0.26	6.06	39,52,56,58	0
5	NAG	A	809	14/15	0.93	0.13	5.57	28,30,37,39	0
4	NAG	A	804	14/15	0.88	0.18	1.33	36,43,46,52	0
6	MAN	A	815	11/12	0.93	0.16	0.86	44,47,51,52	0
6	NAG	A	812	14/15	0.93	0.09	0.77	21,26,36,45	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(\AA^2)	Q<0.9
6	NAG	A	813	14/15	0.93	0.19	-	34,39,47,48	0
4	NAG	A	805	14/15	0.80	0.32	-	56,60,66,66	0
6	BMA	A	814	11/12	0.92	0.15	-	37,41,43,44	0
2	NAG	A	801	14/15	0.94	0.13	-	32,40,44,47	0
5	BMA	A	811	11/12	0.73	0.31	-	52,55,60,61	0
4	FUC	A	806	10/11	0.87	0.36	-	56,60,61,62	0
5	NAG	A	810	14/15	0.88	0.20	-	35,40,46,48	0

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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors(\AA^2)	Q<0.9
3	NAG	A	808	14/15	0.86	0.23	3.79	32,49,54,58	0
3	NAG	A	803	14/15	0.73	0.30	1.55	43,49,53,56	0
9	CL	A	819	1/1	0.98	0.14	0.75	26,26,26,26	0
10	2QP	A	820	32/32	0.98	0.11	0.51	20,31,43,48	0
8	CA	A	818	1/1	1.00	0.04	-1.44	15,15,15,15	0
7	ZN	A	817	1/1	1.00	0.06	-2.45	19,19,19,19	0
7	ZN	A	816	1/1	1.00	0.07	-3.90	21,21,21,21	0
3	NAG	A	807	14/15	0.86	0.22	-	55,63,68,69	0

6.5 Other polymers [i](#)

There are no such residues in this entry.