



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 15, 2017 – 12:45 am GMT

PDB ID : 3MBC
Title : Crystal structure of monomeric isocitrate dehydrogenase from *Corynebacterium glutamicum* in complex with NADP
Authors : Sidhu, N.S.; Aich, S.; Sheldrick, G.M.; Delbaere, L.T.J.
Deposited on : 2010-03-25
Resolution : 1.90 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

<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 : 1.7.2 (RC1), CSD as538be (2017)
Xtriage (Phenix) : 1.9-1692
EDS : trunk28620
Percentile statistics : 20161228.v01 (using entries in the PDB archive December 28th 2016)
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) : recalc28949

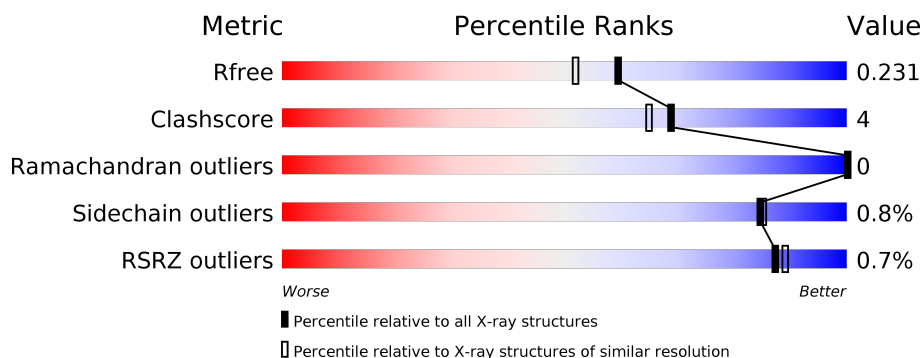
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION



The reported resolution of this entry is 1.90 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}	100719	5047 (1.90-1.90)
Clashscore	112137	5731 (1.90-1.90)
Ramachandran outliers	110173	5669 (1.90-1.90)
Sidechain outliers	110143	5670 (1.90-1.90)
RSRZ outliers	101464	5100 (1.90-1.90)

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	738	 92% 7%
1	B	738	 86% 13%

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 12051 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.

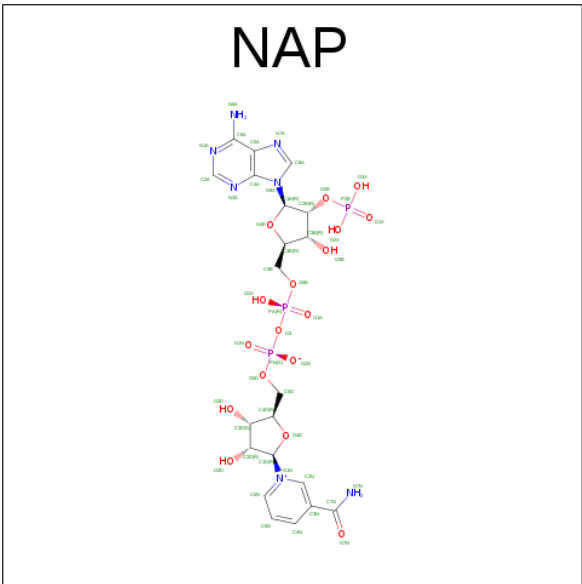
- Molecule 1 is a protein called Isocitrate dehydrogenase [NADP].

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	735	Total	C	N	O	S	0	2	0
			5618	3520	963	1119	16			
1	B	735	Total	C	N	O	S	0	1	0
			5604	3511	962	1115	16			

- Molecule 2 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	B	1	Total	Mg	0	0
			1	1		
2	A	1	Total	Mg	0	0
			1	1		

- Molecule 3 is NADP NICOTINAMIDE-ADENINE-DINUCLEOTIDE PHOSPHATE (three-letter code: NAP) (formula: C₂₁H₂₈N₇O₁₇P₃).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
3	A	1	Total	C	N	O	P	0	0
			31	10	5	13	3		

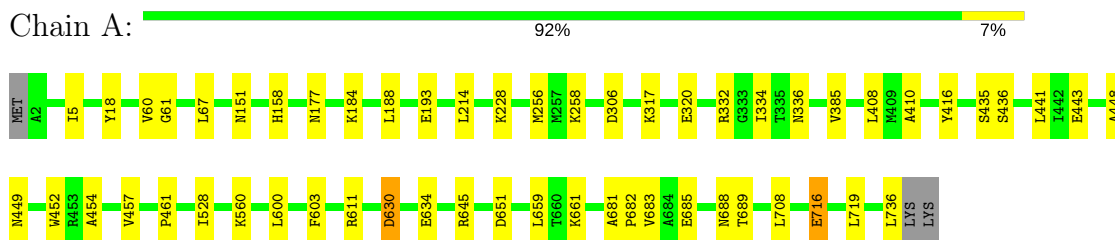
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	614	Total	O	0	0
			614	614		
4	B	182	Total	O	0	0
			182	182		

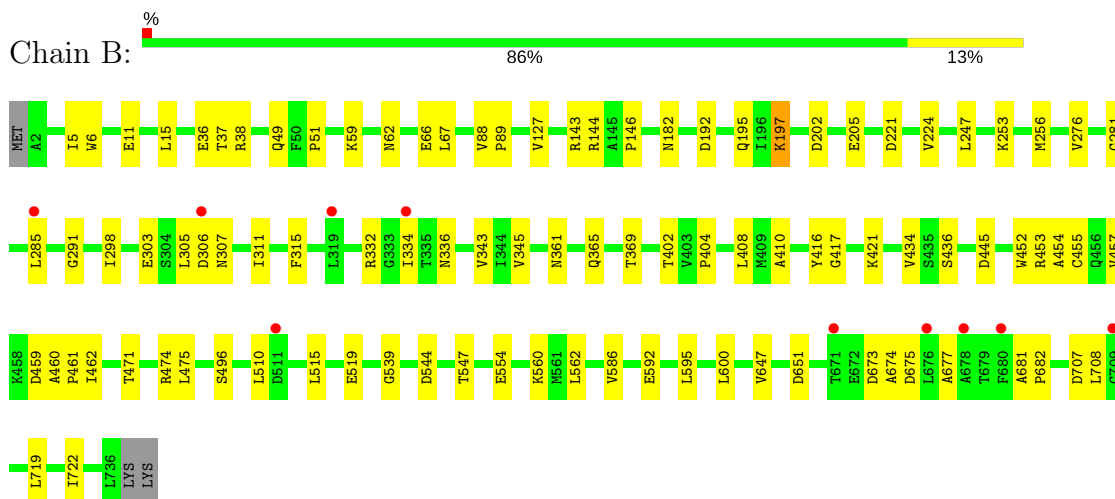
3 Residue-property plots

These plots are drawn for all protein, RNA and DNA 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: Isocitrate dehydrogenase [NADP]



- Molecule 1: Isocitrate dehydrogenase [NADP]



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	128.84Å 52.73Å 236.37Å 90.00° 103.41° 90.00°	Depositor
Resolution (Å)	19.74 – 1.90 19.61 – 1.90	Depositor EDS
% Data completeness (in resolution range)	100.0 (19.74-1.90) 97.9 (19.61-1.90)	Depositor EDS
R_{merge}	0.09	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.72 (at 1.90Å)	Xtriage
Refinement program	REFMAC 5.5.0102	Depositor
R, R_{free}	0.189 , 0.229 0.193 , 0.231	Depositor DCC
R_{free} test set	5992 reflections (5.26%)	DCC
Wilson B-factor (Å ²)	24.8	Xtriage
Anisotropy	0.161	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 37.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.40$, $\langle L^2 \rangle = 0.23$	Xtriage
Estimated twinning fraction	0.076 for h,-k,-h-l	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	12051	wwPDB-VP
Average B, all atoms (Å ²)	38.0	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: NAP, MG

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	0.72	1/5719 (0.0%)	0.75	1/7766 (0.0%)
1	B	0.39	0/5699	0.53	0/7741
All	All	0.58	1/11418 (0.0%)	0.65	1/15507 (0.0%)

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	1
1	B	0	1
All	All	0	2

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	385	VAL	CB-CG2	5.36	1.64	1.52

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	630	ASP	CB-CG-OD1	5.62	123.36	118.30

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	306	ASP	Peptide

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Mol	Chain	Res	Type	Group
1	B	306	ASP	Peptide

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	5618	0	5544	31	0
1	B	5604	0	5518	65	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
3	A	31	0	11	1	0
4	A	614	0	0	5	0
4	B	182	0	0	3	0
All	All	12051	0	11073	97	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.

All (97) 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:177[B]:ASN:OD1	4:A:1010:HOH:O	1.79	1.00
1:B:560:LYS:HD2	1:B:600:LEU:HD23	1.45	0.99
1:B:276:VAL:HG11	1:B:315:PHE:CE1	2.03	0.93
1:B:253:LYS:NZ	1:B:256:MET:HE3	1.91	0.86
1:B:453:ARG:NH1	1:B:455:CYS:SG	2.61	0.74
1:B:417:GLY:O	1:B:421:LYS:NZ	2.24	0.70
1:B:592:GLU:OE1	1:B:647:VAL:HG21	1.92	0.70
1:B:36:GLU:OE1	1:B:38:ARG:NH2	2.22	0.68
1:B:253:LYS:HZ3	1:B:256:MET:HE3	1.56	0.67
1:B:253:LYS:HG3	1:B:345:VAL:HG12	1.76	0.67
1:B:253:LYS:HZ1	1:B:256:MET:CE	2.08	0.65
1:B:253:LYS:NZ	1:B:256:MET:CE	2.59	0.65
1:B:471:THR:HG22	1:B:475:LEU:HD12	1.81	0.63
1:A:560:LYS:HD2	1:A:600:LEU:HD23	1.81	0.63
1:B:460:ALA:HB3	1:B:461:PRO:HD3	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:560:LYS:CD	1:B:600:LEU:HD23	2.25	0.61
1:B:402:THR:HG22	1:B:554:GLU:OE1	2.02	0.59
1:A:184:LYS:HE3	4:A:1076:HOH:O	2.01	0.59
1:B:515:LEU:HD22	1:B:519:GLU:HB3	1.85	0.58
1:A:661:LYS:HE2	1:A:688:ASN:HA	1.86	0.57
1:B:681:ALA:HB3	1:B:682:PRO:HD3	1.88	0.56
1:A:151:ASN:ND2	1:A:634:GLU:OE1	2.35	0.56
1:B:202:ASP:OD1	1:B:202:ASP:N	2.39	0.56
1:B:562:LEU:HD11	4:B:773:HOH:O	2.05	0.55
1:B:674:ALA:O	1:B:677:ALA:HB3	2.06	0.55
1:B:143:ARG:HD2	1:B:547:THR:CG2	2.38	0.53
1:B:281:GLY:O	1:B:285:LEU:HG	2.08	0.53
1:B:681:ALA:HB3	1:B:682:PRO:CD	2.39	0.53
1:B:253:LYS:HG3	1:B:345:VAL:CG1	2.40	0.52
1:A:435:SER:HB2	1:A:441:LEU:HD21	1.91	0.51
1:A:611:ARG:NH2	1:A:630:ASP:OD2	2.41	0.51
1:B:253:LYS:CG	1:B:345:VAL:HG12	2.39	0.51
1:A:184:LYS:NZ	1:A:443:GLU:O	2.37	0.51
1:B:192:ASP:OD1	1:B:436:SER:HB2	2.12	0.50
1:B:253:LYS:NZ	1:B:544:ASP:OD1	2.44	0.50
1:B:182:ASN:ND2	1:B:224:VAL:HG13	2.28	0.49
1:B:49:GLN:HG3	1:B:127:VAL:CG2	2.43	0.49
1:B:143:ARG:HD2	1:B:547:THR:HG21	1.93	0.49
1:B:197:LYS:HE2	1:B:205:GLU:OE2	2.13	0.49
1:B:474:ARG:HD3	1:B:510:LEU:HD21	1.94	0.49
1:B:144:ARG:HB3	1:B:404:PRO:HB3	1.95	0.48
1:B:434:VAL:O	1:B:434:VAL:HG23	2.14	0.48
1:B:592:GLU:OE1	1:B:647:VAL:CG2	2.59	0.47
1:B:247:LEU:O	1:B:369:THR:HG23	2.14	0.47
1:A:685:GLU:O	1:A:689:THR:HG23	2.14	0.47
1:B:62:ASN:O	1:B:66:GLU:HG2	2.14	0.47
1:B:708:LEU:HD23	1:B:722:ILE:CD1	2.45	0.47
1:B:182:ASN:HD22	1:B:224:VAL:HG13	1.80	0.47
1:B:6:TRP:O	1:B:37:THR:HA	2.15	0.47
1:A:193:GLU:O	1:A:436:SER:OG	2.30	0.46
1:A:5:ILE:HG21	1:A:67:LEU:HD21	1.97	0.46
1:A:18:TYR:OH	1:A:716:GLU:HG2	2.15	0.46
1:B:88:VAL:HB	1:B:89:PRO:HD3	1.95	0.46
1:B:592:GLU:CD	1:B:647:VAL:HG22	2.36	0.46
1:B:336:ASN:ND2	1:B:343:VAL:HG21	2.30	0.46
1:B:146:PRO:HA	4:B:773:HOH:O	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:256:MET:HG2	1:B:416:TYR:CE1	2.50	0.46
1:B:192:ASP:OD1	1:B:436:SER:CB	2.64	0.46
1:A:332:ARG:HB3	1:A:334:ILE:HG12	1.98	0.46
1:A:681:ALA:HB3	1:A:682:PRO:HD3	1.98	0.45
1:A:645:ARG:O	1:A:645:ARG:HG2	2.16	0.45
1:B:708:LEU:HD23	1:B:722:ILE:HD13	1.99	0.45
1:A:188:LEU:HD22	1:A:214:LEU:HB3	1.98	0.45
1:B:5:ILE:HG21	1:B:67:LEU:HD21	1.98	0.44
1:B:452:TRP:CH2	1:B:454:ALA:HB2	2.53	0.44
1:B:459:ASP:HA	1:B:462:ILE:HD12	2.00	0.44
1:A:448:ALA:O	1:A:449:ASN:HB2	2.18	0.43
1:A:603:PHE:CD1	1:A:659:LEU:HD22	2.53	0.43
1:B:332:ARG:HB3	1:B:334:ILE:HG12	2.01	0.43
1:A:228:LYS:HG3	4:A:747:HOH:O	2.17	0.43
1:A:60:VAL:HG12	1:A:61:GLY:O	2.19	0.43
1:A:452:TRP:CH2	1:A:454:ALA:HB2	2.53	0.43
1:B:11:GLU:HB3	1:B:586:VAL:HG21	2.00	0.43
1:B:408:LEU:HD21	1:B:457:VAL:HG11	1.99	0.43
1:B:673:ASP:OD1	1:B:675:ASP:HB2	2.19	0.42
1:A:435:SER:HB2	1:A:441:LEU:HD11	2.01	0.42
3:A:740:NAP:H52A	4:A:1302:HOH:O	2.18	0.42
1:A:681:ALA:N	1:A:682:PRO:HD2	2.34	0.42
1:B:410:ALA:HB3	1:B:461:PRO:HB3	2.00	0.42
1:B:51:PRO:O	1:B:59:LYS:HE2	2.20	0.42
1:A:317:LYS:O	1:A:320:GLU:HG2	2.19	0.42
1:B:303:GLU:HA	1:B:303:GLU:OE2	2.20	0.42
1:A:408:LEU:HD21	1:A:457:VAL:HG21	2.03	0.41
1:B:291:GLY:HA2	1:B:298:ILE:HD11	2.02	0.41
1:B:195:GLN:HB2	1:B:434:VAL:CG2	2.50	0.41
1:B:361:ASN:HD21	1:B:365:GLN:HB2	1.85	0.41
1:B:15:LEU:CD2	1:B:719:LEU:HD22	2.51	0.41
1:A:256:MET:HG2	1:A:416:TYR:CE1	2.55	0.41
1:A:708:LEU:HD22	1:A:719:LEU:CD2	2.50	0.41
1:B:305:LEU:HD23	1:B:311:ILE:HD12	2.03	0.41
1:B:707:ASP:HB3	4:B:792:HOH:O	2.20	0.41
1:B:408:LEU:HB3	1:B:539:GLY:HA2	2.03	0.41
1:B:595:LEU:O	1:B:651:ASP:HB2	2.21	0.41
1:A:256:MET:HE2	1:A:256:MET:HB2	1.99	0.40
1:A:410:ALA:HB3	1:A:461:PRO:HB3	2.04	0.40
1:A:683:VAL:HG21	1:A:736:LEU:HD13	2.04	0.40
1:A:158:HIS:HB3	4:A:1338:HOH:O	2.21	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	735/738 (100%)	725 (99%)	10 (1%)	0	100	100
1	B	734/738 (100%)	707 (96%)	27 (4%)	0	100	100
All	All	1469/1476 (100%)	1432 (98%)	37 (2%)	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	Rotameric	Outliers	Percentiles	
1	A	594/595 (100%)	589 (99%)	5 (1%)	85	85
1	B	590/595 (99%)	585 (99%)	5 (1%)	85	85
All	All	1184/1190 (100%)	1174 (99%)	10 (1%)	85	85

All (10) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	258	LYS
1	A	336	ASN
1	A	528	ILE
1	A	651	ASP
1	A	716	GLU

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Mol	Chain	Res	Type
1	B	197	LYS
1	B	221	ASP
1	B	307	ASN
1	B	445	ASP
1	B	496	SER

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

Mol	Chain	Res	Type
1	A	195	GLN
1	A	293	ASN
1	B	283	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 carbohydrates in this entry.

5.6 Ligand geometry ⓘ

Of 3 ligands modelled in this entry, 2 are 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	NAP	A	740	-	28,33,52	1.41	3 (10%)	32,52,80	2.27	3 (9%)

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	NAP	A	740	-	-	0/17/37/67	0/3/3/5

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	740	NAP	C2A-N1A	2.43	1.38	1.33
3	A	740	NAP	PN-O1N	3.18	1.61	1.50
3	A	740	NAP	C2A-N3A	4.37	1.39	1.32

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	740	NAP	N3A-C2A-N1A	-11.40	118.93	128.86
3	A	740	NAP	C2A-N1A-C6A	2.65	123.40	118.77
3	A	740	NAP	O5D-PN-O2N	3.14	120.30	107.61

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	740	NAP	1	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	735/738 (99%)	-0.50	0 100 100	11, 24, 47, 71	0
1	B	735/738 (99%)	-0.05	10 (1%) 75 78	35, 48, 68, 89	0
All	All	1470/1476 (99%)	-0.28	10 (0%) 87 89	11, 40, 64, 89	0

All (10) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	306	ASP	3.8
1	B	334	ILE	2.8
1	B	285	LEU	2.4
1	B	511	ASP	2.4
1	B	671	THR	2.2
1	B	678	ALA	2.2
1	B	676	LEU	2.1
1	B	319	LEU	2.1
1	B	680	PHE	2.1
1	B	709	GLY	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 carbohydrates 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. 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	NAP	A	740	31/48	0.92	0.13	1.65	13,37,70,71	0
2	MG	A	739	1/1	0.99	0.08	-0.20	11,11,11,11	0
2	MG	B	739	1/1	0.98	0.04	-6.08	30,30,30,30	0

6.5 Other polymers [i](#)

There are no such residues in this entry.