W O R L D W I D E
wwPDB
PROTEIN DATA BANK

Full wwPDB X-ray Structure Validation Report (i)

Feb 1, 2016 – 04:53 AM GMT

PDB ID	:	2OKG
Title	:	Structure of effector binding domain of central glycolytic gene regulator (CggR) from B. subtilis
Authors	:	Rezacova, P.; Moy, S.F.; Joachimiak, A.; Otwinowski, Z.; Midwest Center for Structural Genomics (MCSG)
Deposited on	:	2007-01-16
Resolution	:	1.65 Å(reported)

The following versions of software and data (see references (i)) 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 (i)

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

The reported resolution of this entry is 1.65 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	Percentile Ranks	Value
Rfree		0.279
Clashscore		7
Ramachandran outliers		0
Sidechain outliers		1.5%
RSRZ outliers		16.1%

Worse   *Better*

■ Percentile relative to all X-ray structures

▯ Percentile relative to X-ray structures of similar resolution
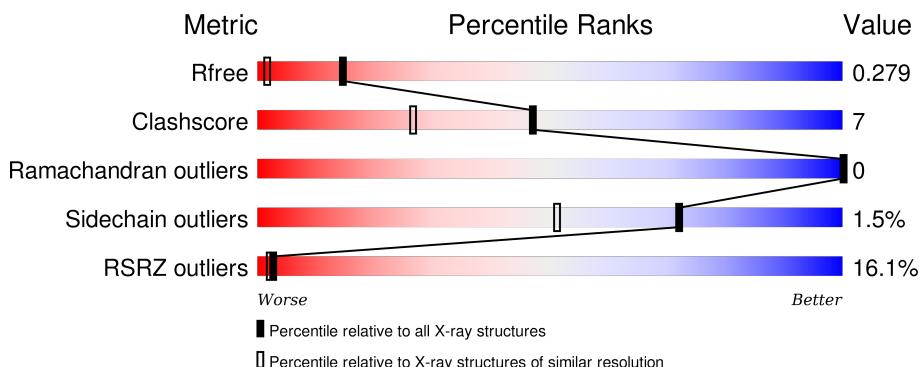
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	91344	1226 (1.66-1.66)
Clashscore	102246	1323 (1.66-1.66)
Ramachandran outliers	100387	1295 (1.66-1.66)
Sidechain outliers	100360	1295 (1.66-1.66)
RSRZ outliers	91569	1227 (1.66-1.66)

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 <=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	255	13% ... 85% ... 11% .. .
1	B	255	18% ... 84% ... 13% .
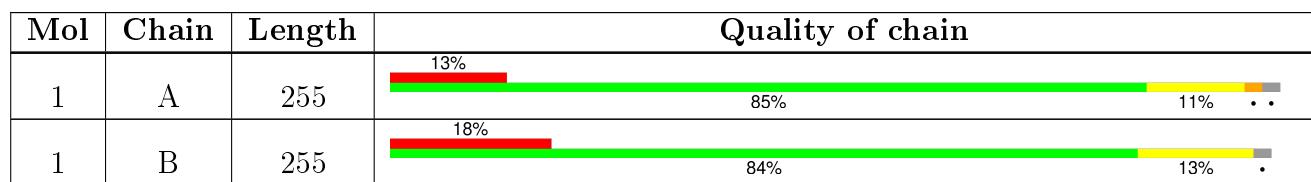
The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	G3H	B	501	X	-	-	-

2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 4367 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 Central glycolytic gene regulator.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	249	Total	C	N	O	S	Se	0	9	0
			1926	1210	332	370	4	10			
1	B	251	Total	C	N	O	S	Se	0	11	0
			1956	1228	339	377	3	9			

There are 22 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	86	SER	-	CLONING ARTIFACT	UNP O32253
A	87	ASN	-	CLONING ARTIFACT	UNP O32253
A	88	ALA	-	CLONING ARTIFACT	UNP O32253
A	127	MSE	MET	MODIFIED RESIDUE	UNP O32253
A	135	MSE	MET	MODIFIED RESIDUE	UNP O32253
A	159	MSE	MET	MODIFIED RESIDUE	UNP O32253
A	160	MSE	MET	MODIFIED RESIDUE	UNP O32253
A	193	MSE	MET	MODIFIED RESIDUE	UNP O32253
A	236	MSE	MET	MODIFIED RESIDUE	UNP O32253
A	247	MSE	MET	MODIFIED RESIDUE	UNP O32253
A	290	MSE	MET	MODIFIED RESIDUE	UNP O32253
B	86	SER	-	CLONING ARTIFACT	UNP O32253
B	87	ASN	-	CLONING ARTIFACT	UNP O32253
B	88	ALA	-	CLONING ARTIFACT	UNP O32253
B	127	MSE	MET	MODIFIED RESIDUE	UNP O32253
B	135	MSE	MET	MODIFIED RESIDUE	UNP O32253
B	159	MSE	MET	MODIFIED RESIDUE	UNP O32253
B	160	MSE	MET	MODIFIED RESIDUE	UNP O32253
B	193	MSE	MET	MODIFIED RESIDUE	UNP O32253
B	236	MSE	MET	MODIFIED RESIDUE	UNP O32253
B	247	MSE	MET	MODIFIED RESIDUE	UNP O32253
B	290	MSE	MET	MODIFIED RESIDUE	UNP O32253

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

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	3	Total 3	Cl 3	0	0

- Molecule 3 is GLYCERALDEHYDE-3-PHOSPHATE (three-letter code: G3H) (formula: $C_3H_7O_6P$).
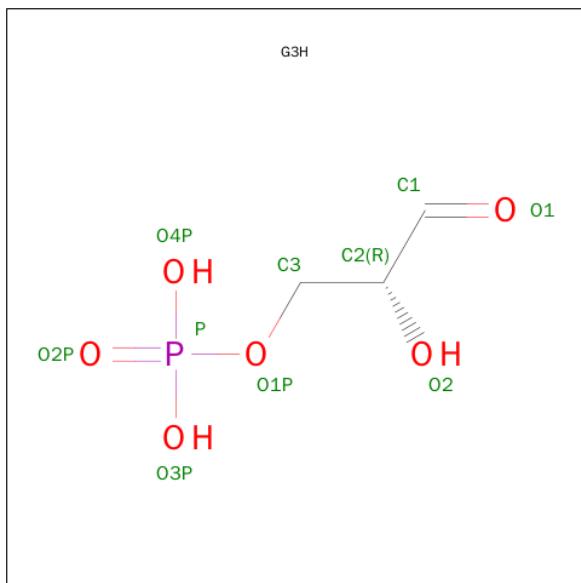
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	B	1	Total 10	C 3	O 6	P 1	0	0

- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	214	Total 214	O 214	0	0
4	B	258	Total 258	O 258	0	3

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 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 (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: Central glycolytic gene regulator
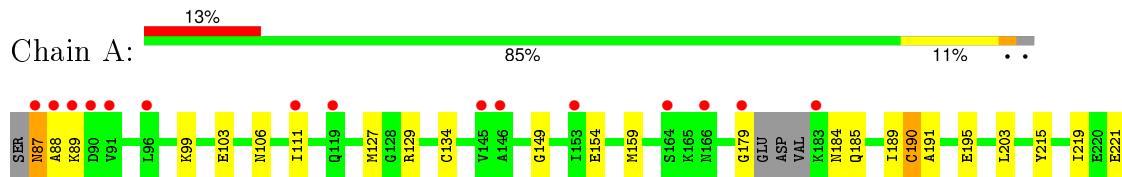
- Molecule 1: Central glycolytic gene regulator
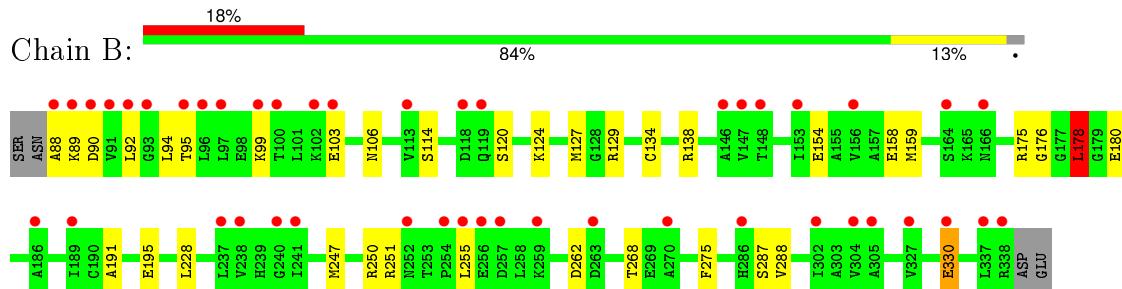
4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α, β, γ	52.60Å 83.80Å 116.72Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	34.04 – 1.65 34.04 – 1.65	Depositor EDS
% Data completeness (in resolution range)	96.0 (34.04-1.65) 96.0 (34.04-1.65)	Depositor EDS
R_{merge}	0.09	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	3.61 (at 1.65Å)	Xtriage
Refinement program	REFMAC 5.2.0019	Depositor
R, R_{free}	0.196 , 0.239 0.249 , 0.279	Depositor DCC
R_{free} test set	3089 reflections (5.41%)	DCC
Wilson B-factor (Å^2)	21.1	Xtriage
Anisotropy	0.153	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.35 , 50.7	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning[2]	$< |L| > = 0.49, < L^2 > = 0.32$	Xtriage
Outliers	0 of 60201 reflections	Xtriage
F_o,F_c correlation	0.93	EDS
Total number of atoms	4367	wwPDB-VP
Average B, all atoms (Å^2)	18.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.89% of the height of the origin peak. No significant pseudotranslation is detected.*

---

[1] Intensities estimated from amplitudes.

[2] Theoretical values of $< |L| >$, $< L^2 >$ for acentric reflections are 0.5, 0.375 respectively for untwinned datasets, and 0.333, 0.2 for perfectly twinned datasets.

　　　　Full wwPDB X-ray Structure Validation Report　　　　

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: G3H, CL

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	0.76	4/1963 (0.2%)	0.76	1/2625 (0.0%)
1	B	0.80	5/1997 (0.3%)	0.73	4/2672 (0.1%)
All	All	0.78	9/3960 (0.2%)	0.75	5/5297 (0.1%)

All (9) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	330	GLU	CD-OE2	-9.79	1.14	1.25
1	B	120	SER	CB-OG	9.11	1.54	1.42
1	B	330	GLU	CG-CD	8.80	1.65	1.51
1	B	330	GLU	CD-OE1	8.76	1.35	1.25
1	A	179	GLY	C-O	8.51	1.37	1.23
1	B	330	GLU	CB-CG	7.61	1.66	1.52
1	A	249	GLN	CD-OE1	6.50	1.38	1.24
1	A	184	ASN	C-N	5.13	1.45	1.34
1	A	338	ARG	CZ-NH1	5.06	1.39	1.33

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	338	ARG	NE-CZ-NH2	-7.89	116.36	120.30
1	B	330	GLU	OE1-CD-OE2	6.94	131.63	123.30
1	B	255	LEU	CB-CG-CD1	5.80	120.87	111.00
1	B	178	LEU	CB-CG-CD1	5.62	120.56	111.00
1	B	330	GLU	CB-CG-CD	-5.49	99.38	114.20

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	1926	0	1993	27	0
1	B	1956	0	2019	34	0
2	A	3	0	0	0	0
3	B	10	0	5	1	0
4	A	214	0	0	0	0
4	B	258	0	0	7	0
All	All	4367	0	4017	59	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 7.

All (59) 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:111:ILE:CD1	1:A:134[B]:CYS:SG	2.53	0.96
1:B:158:GLU:HG3	1:B:159[A]:MSE:HE2	1.51	0.91
1:A:111:ILE:HD13	1:A:134[B]:CYS:SG	2.14	0.87
1:B:158:GLU:HG3	1:B:159[A]:MSE:CE	2.12	0.78
1:B:134[B]:CYS:SG	1:B:138[B]:ARG:NH1	2.62	0.72
1:B:129:ARG:HG3	1:B:159[B]:MSE:HE2	1.72	0.71
1:A:111:ILE:HD12	1:A:134[B]:CYS:SG	2.30	0.71
1:A:127[B]:MSE:HE2	1:A:304:VAL:HG12	1.75	0.68
1:B:99:LYS:O	1:B:103:GLU:HG3	1.94	0.68
1:B:228:LEU:HD21	1:B:288:VAL:HG22	1.77	0.66
1:A:219[A]:ILE:HG23	1:A:228:LEU:HD11	1.78	0.65
1:A:219[A]:ILE:HG23	1:A:228:LEU:CD1	2.28	0.64
1:A:334:LYS:O	1:A:338:ARG:HG3	1.99	0.63
1:A:99:LYS:NZ	1:A:103:GLU:OE2	2.36	0.59
1:B:247:MSE:SE	3:B:501:G3H:H32	2.55	0.57
1:A:89:LYS:HD2	1:B:89:LYS:H	1.69	0.57
1:A:191:ALA:O	1:A:195:GLU:HG3	2.06	0.55
1:B:94:LEU:HD21	1:B:330:GLU:HG3	1.89	0.55
1:B:159[A]:MSE:HE3	4:B:610:HOH:O	2.06	0.55
1:B:228:LEU:CD2	1:B:288:VAL:HG22	2.37	0.54
1:A:127[B]:MSE:HE1	1:A:305:ALA:N	2.23	0.54

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:129:ARG:NE	1:B:114:SER:HB3	2.24	0.53
1:B:124:LYS:HA	1:B:127:MSE:HE3	1.91	0.53
1:B:106[B]:ASN:ND2	4:B:692:HOH:O	2.41	0.52
1:B:268:THR:CG2	1:B:275:PHE:HB2	2.39	0.52
1:A:154:GLU:HA	1:A:189:ILE:HD12	1.92	0.52
1:A:87:ASN:HD22	1:A:88:ALA:H	1.58	0.51
1:A:129:ARG:N	1:A:159[A]:MSE:HG2	2.26	0.51
1:B:175[B]:ARG:HA	4:B:709[B]:HOH:O	2.10	0.51
1:B:191:ALA:O	1:B:195[B]:GLU:HG3	2.13	0.49
1:B:90:ASP:OD1	1:B:95:THR:HG21	2.13	0.48
1:B:176:GLY:O	1:B:178:LEU:HD13	2.12	0.48
1:A:215:TYR:O	1:A:219[A]:ILE:HG13	2.13	0.48
1:A:87:ASN:HD22	1:A:88:ALA:N	2.12	0.48
1:B:247:MSE:HE2	1:B:251:ARG:CZ	2.43	0.47
1:A:127[B]:MSE:HE2	1:A:304:VAL:CG1	2.44	0.47
1:B:88:ALA:N	4:B:720:HOH:O	2.48	0.46
1:B:92:LEU:HD22	4:B:664:HOH:O	2.15	0.46
1:B:247:MSE:HE1	1:B:250:ARG:NH2	2.31	0.46
1:A:149:GLY:O	1:A:185:GLN:HG3	2.16	0.46
1:B:134[B]:CYS:SG	1:B:138[B]:ARG:CZ	3.04	0.46
1:B:247:MSE:HE1	1:B:250:ARG:HH21	1.81	0.46
1:B:106[A]:ASN:ND2	4:B:637:HOH:O	2.49	0.45
1:A:219[A]:ILE:CG2	1:A:228:LEU:CD1	2.94	0.44
1:B:191:ALA:O	1:B:195[A]:GLU:HG3	2.18	0.44
1:B:228:LEU:HD21	1:B:288:VAL:CG2	2.45	0.44
1:B:180:GLU:OE2	1:B:247:MSE:HE1	2.17	0.43
1:A:334:LYS:O	1:A:338:ARG:CG	2.66	0.43
1:B:268:THR:HG23	1:B:275:PHE:HB2	2.01	0.43
1:A:149:GLY:O	1:A:185:GLN:CG	2.67	0.43
1:A:129:ARG:HA	1:A:159[A]:MSE:CG	2.49	0.42
1:B:154:GLU:OE1	4:B:754:HOH:O	2.21	0.42
1:B:92:LEU:HD13	1:B:114:SER:OG	2.19	0.42
1:B:247:MSE:HE2	1:B:251:ARG:NE	2.35	0.42
1:A:129:ARG:HA	1:A:159[A]:MSE:HG3	2.01	0.42
1:A:190[A]:CYS:SG	1:A:203:LEU:HD23	2.61	0.41
1:A:221[B]:GLU:HA	1:A:222:PRO:HD2	1.97	0.40
1:A:106:ASN:HB3	1:A:321:PRO:HA	2.02	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	254/255 (100%)	252 (99%)	2 (1%)	0	100	100
1	B	260/255 (102%)	259 (100%)	1 (0%)	0	100	100
All	All	514/510 (101%)	511 (99%)	3 (1%)	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	210/199 (106%)	206 (98%)	4 (2%)	65	40
1	B	212/199 (106%)	209 (99%)	3 (1%)	74	53
All	All	422/398 (106%)	415 (98%)	7 (2%)	72	45

All (7) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	87	ASN
1	A	190[A]	CYS
1	A	190[B]	CYS
1	A	222	PRO
1	B	178	LEU
1	B	262	ASP
1	B	287	SER

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (2) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	87	ASN
1	A	106	ASN

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 4 ligands modelled in this entry, 3 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	G3H	B	501	-	9,9,9	2.09	2 (22%)	10,12,12	2.21	1 (10%)

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	G3H	B	501	-	1/1/2/3	0/6/8/8	0/0/0/0

Full wwPDB X-ray Structure Validation Report

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	B	501	G3H	C2-C1	2.18	1.54	1.50
3	B	501	G3H	O1-C1	5.48	1.45	1.19

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	501	G3H	O1-C1-C2	-5.78	110.73	125.35

All (1) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
3	B	501	G3H	C2

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	B	501	G3H	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(Å²)	Q<0.9
1	A	241/255 (94%)	0.81	33 (13%)	4	3	11, 16, 20, 45	4 (1%)
1	B	243/255 (95%)	0.95	45 (18%)	2	1	6, 16, 21, 30	3 (1%)
All	All	484/510 (94%)	0.88	78 (16%)	3	2	6, 16, 21, 45	7 (1%)

All (78) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	88	ALA	5.6
1	B	255	LEU	5.4
1	A	252	ASN	5.3
1	B	93	GLY	4.8
1	A	249	GLN	4.7
1	A	326	LEU	4.6
1	A	302	ILE	4.4
1	B	96	LEU	4.4
1	B	164	SER	4.4
1	A	338	ARG	4.4
1	A	238	VAL	4.2
1	A	327	VAL	4.2
1	B	256	GLU	4.1
1	B	238[A]	VAL	3.9
1	B	263	ASP	3.8
1	A	183	LYS	3.8
1	A	88	ALA	3.8
1	A	337	LEU	3.8
1	B	90	ASP	3.8
1	A	304	VAL	3.6
1	B	91	VAL	3.6
1	A	91	VAL	3.5
1	B	166	ASN	3.4
1	A	303	ALA	3.3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	B	119	GLN	3.3
1	A	153	ILE	3.2
1	B	153	ILE	3.2
1	A	325	VAL	3.1
1	B	186	ALA	3.1
1	B	99	LYS	3.1
1	A	301	ILE	3.0
1	A	90	ASP	3.0
1	A	245	LYS	2.9
1	A	119	GLN	2.9
1	B	95	THR	2.9
1	B	92	LEU	2.8
1	B	237	LEU	2.8
1	B	304	VAL	2.8
1	B	338	ARG	2.8
1	A	164	SER	2.7
1	A	250	ARG	2.7
1	B	286	HIS	2.7
1	A	166	ASN	2.7
1	B	146	ALA	2.7
1	A	87	ASN	2.7
1	A	305	ALA	2.7
1	B	302	ILE	2.5
1	A	111	ILE	2.5
1	A	237	LEU	2.5
1	A	146	ALA	2.5
1	B	240	GLY	2.5
1	B	89	LYS	2.4
1	B	100	THR	2.4
1	A	179	GLY	2.4
1	B	189	ILE	2.3
1	B	148	THR	2.3
1	B	103	GLU	2.2
1	B	252	ASN	2.2
1	B	241	ILE	2.2
1	B	259	LYS	2.2
1	B	147	VAL	2.2
1	A	239	HIS	2.2
1	B	97	LEU	2.2
1	B	330	GLU	2.2
1	B	270	ALA	2.2
1	A	96	LEU	2.1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	RSRZ
1	B	118	ASP	2.1
1	A	89	LYS	2.1
1	B	257	ASP	2.1
1	B	337	LEU	2.1
1	B	102	LYS	2.1
1	A	145	VAL	2.1
1	B	156	VAL	2.1
1	B	305	ALA	2.1
1	B	254	PRO	2.0
1	B	113	VAL	2.0
1	B	327	VAL	2.0
1	A	336	LEU	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($Å^2$)	Q<0.9
2	CL	A	601	1/1	0.98	0.17	1.70	24,24,24,24	0
3	G3H	B	501	10/10	0.95	0.17	0.70	24,29,37,39	0
2	CL	A	602	1/1	0.99	0.17	0.39	22,22,22,22	0
2	CL	A	603	1/1	0.90	0.09	-0.69	34,34,34,34	0

6.5 Other polymers (i)

There are no such residues in this entry.