



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 13, 2018 – 01:21 pm GMT

PDB ID : 3U3W
Title : Crystal Structure of Bacillus thuringiensis PlcR in complex with the peptide PapR7 and DNA
Authors : Grenha, R.; Slamti, L.; Bouillaut, L.; Lereclus, D.; Nessler, S.
Deposited on : 2011-10-06
Resolution : 2.40 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 following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Xtrriage (Phenix) : 1.13
EDS : trunk31020
Percentile statistics : 20171227.v01 (using entries in the PDB archive December 27th 2017)
Refmac : 5.8.0158
CCP4 : 7.0 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk31020

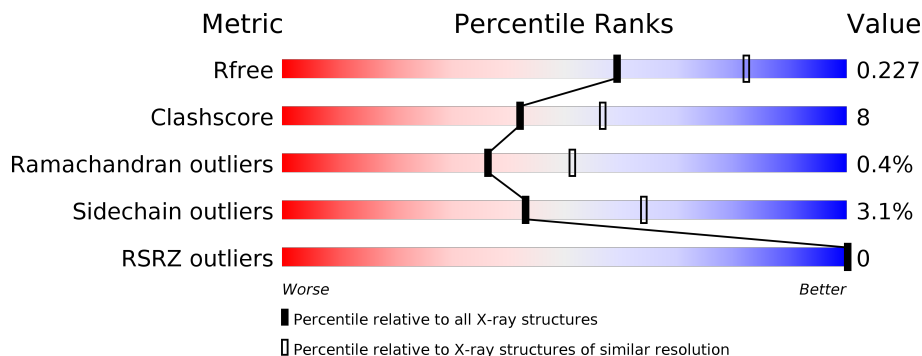
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION



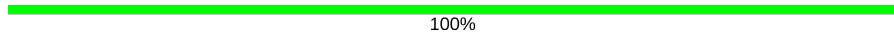
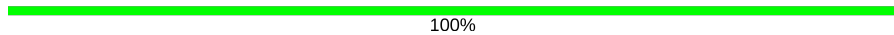

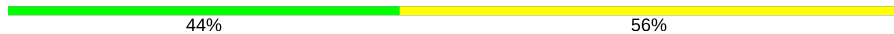
The reported resolution of this entry is 2.40 Å.

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}	111664	3481 (2.40-2.40)
Clashscore	122126	3956 (2.40-2.40)
Ramachandran outliers	120053	3897 (2.40-2.40)
Sidechain outliers	120020	3898 (2.40-2.40)
RSRZ outliers	108989	3386 (2.40-2.40)

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	293	 80% 14%
1	B	293	 78% 16%
2	P	7	 100%
2	Q	7	 100%
3	Y	18	 78% 22%
4	Z	18	 44% 56%

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 5947 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 Transcriptional activator PlcR protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	280	2413	1556	393	454	10	0	8	0
1	B	280	2419	1558	395	456	10	0	8	0

There are 16 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	286	LEU	-	EXPRESSION TAG	UNP Q45782
A	287	GLU	-	EXPRESSION TAG	UNP Q45782
A	288	HIS	-	EXPRESSION TAG	UNP Q45782
A	289	HIS	-	EXPRESSION TAG	UNP Q45782
A	290	HIS	-	EXPRESSION TAG	UNP Q45782
A	291	HIS	-	EXPRESSION TAG	UNP Q45782
A	292	HIS	-	EXPRESSION TAG	UNP Q45782
A	293	HIS	-	EXPRESSION TAG	UNP Q45782
B	286	LEU	-	EXPRESSION TAG	UNP Q45782
B	287	GLU	-	EXPRESSION TAG	UNP Q45782
B	288	HIS	-	EXPRESSION TAG	UNP Q45782
B	289	HIS	-	EXPRESSION TAG	UNP Q45782
B	290	HIS	-	EXPRESSION TAG	UNP Q45782
B	291	HIS	-	EXPRESSION TAG	UNP Q45782
B	292	HIS	-	EXPRESSION TAG	UNP Q45782
B	293	HIS	-	EXPRESSION TAG	UNP Q45782

- Molecule 2 is a protein called C-terminus heptapeptide from PapR protein.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
2	P	7	60	41	7	12	0	0	0
2	Q	7	60	41	7	12	0	0	0

- Molecule 3 is a DNA chain called 5'-D(P*CP*TP*AP*TP*GP*CP*AP*AP*TP*AP*TP*T
P*TP*CP*AP*TP*AP*T)-3'.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
3	Y	18	365	177	60	110	18	0	0	0

- Molecule 4 is a DNA chain called 5'-D(P*AP*TP*AP*TP*GP*AP*AP*AP*TP*AP*TP*
TP*GP*CP*AP*TP*AP*G)-3'.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
4	Z	18	373	179	70	106	18	0	0	0

- Molecule 5 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	B	1	Total 1	Ca 1	0	0
5	A	1	Total 1	Ca 1	0	0

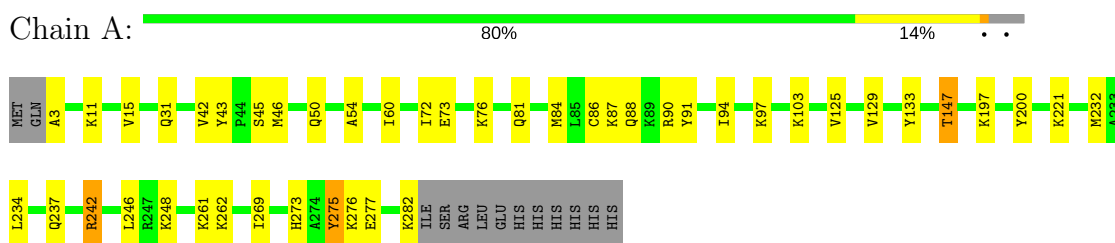
- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	110	Total 110	O 110	0	0
6	B	112	Total 112	O 112	0	0
6	P	6	Total 6	O 6	0	0
6	Q	7	Total 7	O 7	0	0
6	Y	11	Total 11	O 11	0	0
6	Z	9	Total 9	O 9	0	0

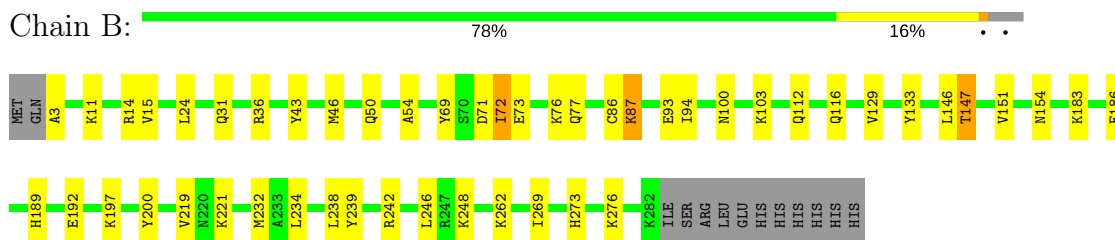
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of 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: Transcriptional activator PlcR protein



- Molecule 1: Transcriptional activator PlcR protein



- Molecule 2: C-terminus heptapeptide from PapR protein



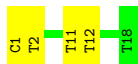
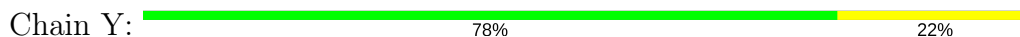
There are no outlier residues recorded for this chain.

- Molecule 2: C-terminus heptapeptide from PapR protein



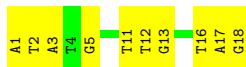
There are no outlier residues recorded for this chain.

- Molecule 3: 5'-D(P*CP*TP*AP*TP*GP*CP*AP*AP*TP*AP*TP*TP*TP*CP*AP*TP*AP*T)-3'



- Molecule 4: 5'-D(P*AP*TP*AP*TP*GP*AP*AP*AP*TP*AP*TP*TP*GP*CP*AP*TP*AP*G)-3'

Chain Z:  44% 56%



4 Data and refinement statistics i

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	88.88Å 71.09Å 88.85Å 90.00° 115.53° 90.00°	Depositor
Resolution (Å)	53.19 – 2.40 53.19 – 2.40	Depositor EDS
% Data completeness (in resolution range)	91.9 (53.19-2.40) 96.3 (53.19-2.40)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	0.10	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.85 (at 2.39Å)	Xtrriage
Refinement program	PHENIX (phenix.refine: 1.7_650)	Depositor
R, R_{free}	0.179 , 0.235 0.180 , 0.227	Depositor DCC
R_{free} test set	1913 reflections (5.04%)	wwPDB-VP
Wilson B-factor (Å ²)	41.5	Xtrriage
Anisotropy	0.311	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 32.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	0.468 for l,-k,h	Xtrriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	5947	wwPDB-VP
Average B, all atoms (Å ²)	47.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.26% 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 [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: 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	0.41	0/2464	0.49	0/3312
1	B	0.41	0/2464	0.50	0/3312
2	P	0.36	0/62	0.48	0/82
2	Q	0.55	0/62	0.56	0/82
3	Y	0.59	0/407	1.25	0/625
4	Z	0.58	0/419	1.23	3/645 (0.5%)
All	All	0.44	0/5878	0.67	3/8058 (0.0%)

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	Z	16	DT	O4'-C1'-N1	7.55	113.28	108.00
4	Z	17	DA	O4'-C1'-N9	6.41	112.49	108.00
4	Z	16	DT	C1'-O4'-C4'	-5.01	105.09	110.10

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	2413	0	2405	39	0
1	B	2419	0	2403	42	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	P	60	0	50	0	0
2	Q	60	0	50	0	0
3	Y	365	0	207	4	0
4	Z	373	0	205	11	0
5	A	1	0	0	0	0
5	B	1	0	0	0	0
6	A	110	0	0	3	0
6	B	112	0	0	4	0
6	P	6	0	0	0	0
6	Q	7	0	0	0	0
6	Y	11	0	0	0	0
6	Z	9	0	0	0	0
All	All	5947	0	5320	83	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 8.

All (83) 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:273:HIS:HA	1:A:276:LYS:HD2	1.42	1.00
1:A:147:THR:HB	1:B:54:ALA:HB1	1.54	0.90
1:A:54:ALA:HB1	1:B:147:THR:HB	1.53	0.88
1:A:129:VAL:HG11	1:A:133:TYR:HD2	1.44	0.83
1:B:129:VAL:HG11	1:B:133:TYR:HD2	1.53	0.73
1:A:129:VAL:HG11	1:A:133:TYR:CD2	2.24	0.71
1:A:3:ALA:HB3	1:A:43:TYR:HE1	1.55	0.70
1:B:183:LYS:O	1:B:186:GLU:HG2	1.92	0.69
1:A:232:MET:HG3	1:B:232:MET:HG2	1.76	0.68
4:Z:11:DT:H2 ^{''}	4:Z:12:DT:O5 [']	1.95	0.67
1:A:60:ILE:H	1:A:60:ILE:HD12	1.59	0.66
1:B:3:ALA:N	1:B:43:TYR:HE1	1.96	0.64
1:A:60:ILE:N	1:A:60:ILE:HD12	2.14	0.63
3:Y:11:DT:H2 ^{''}	3:Y:12:DT:O5 [']	2.01	0.61
1:B:73[A]:GLU:HG3	1:B:77:GLN:HE21	1.64	0.61
1:A:84[B]:MET:O	1:A:88:GLN:HG3	2.03	0.59
1:A:232:MET:CG	1:B:232:MET:HG2	2.32	0.59
1:B:72:ILE:O	1:B:76:LYS:HG3	2.03	0.59
1:A:72:ILE:O	1:A:76:LYS:HG3	2.04	0.57
1:B:31:GLN:NE2	4:Z:3:DA:H62	2.04	0.56
1:B:3:ALA:N	1:B:43:TYR:CE1	2.73	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:87:LYS:HG2	6:A:395:HOH:O	2.09	0.52
1:A:232:MET:HG3	1:B:232:MET:CG	2.38	0.52
1:A:262:LYS:HE3	1:B:269:ILE:HG22	1.90	0.52
1:A:60:ILE:CD1	1:A:60:ILE:H	2.23	0.52
3:Y:1:DC:H2''	3:Y:2:DT:H5''	1.91	0.52
1:A:84[A]:MET:O	1:A:88:GLN:HG3	2.10	0.52
4:Z:11:DT:H2'	4:Z:12:DT:C6	2.45	0.51
1:B:197:LYS:HA	1:B:234:LEU:CD1	2.41	0.51
1:A:3:ALA:HB3	1:A:43:TYR:CE1	2.43	0.51
1:A:242:ARG:O	1:A:246:LEU:HG	2.10	0.51
4:Z:1:DA:H2''	4:Z:2:DT:H5''	1.94	0.50
1:B:93:GLU:HG3	6:B:297:HOH:O	2.11	0.50
1:B:242:ARG:O	1:B:246:LEU:HG	2.11	0.50
1:B:86:CYS:N	1:B:94:ILE:HD11	2.27	0.49
3:Y:1:DC:H42	4:Z:18:DG:H1	1.60	0.49
1:A:90:ARG:O	1:A:94:ILE:HG13	2.12	0.49
4:Z:1:DA:H2''	4:Z:2:DT:C5'	2.43	0.49
1:A:242:ARG:NH1	6:A:315:HOH:O	2.45	0.49
1:A:269:ILE:HG22	1:B:262:LYS:HE3	1.95	0.48
1:A:200:TYR:CZ	1:A:237:GLN:HB3	2.48	0.48
1:B:36:ARG:NH2	4:Z:5:DG:O6	2.46	0.48
1:B:31:GLN:HE21	4:Z:3:DA:H62	1.61	0.47
1:B:100:ASN:O	1:B:103:LYS:HG2	2.15	0.47
1:B:197:LYS:HA	1:B:234:LEU:HD12	1.96	0.47
1:B:112[B]:GLN:O	1:B:116:GLN:HG3	2.15	0.47
1:A:275:TYR:H	1:A:275:TYR:HD1	1.62	0.47
1:B:192:GLU:HG3	6:B:403:HOH:O	2.14	0.47
3:Y:1:DC:H2''	3:Y:2:DT:C5'	2.46	0.46
1:A:197:LYS:HA	1:A:234:LEU:HD12	1.97	0.46
1:B:73[A]:GLU:HG3	1:B:77:GLN:NE2	2.30	0.46
1:A:81:GLN:HB3	1:A:97:LYS:HE2	1.97	0.45
1:A:86:CYS:N	1:A:94:ILE:HD11	2.30	0.45
1:B:129:VAL:HG11	1:B:133:TYR:CD2	2.43	0.45
4:Z:12:DT:H2''	4:Z:13:DG:C8	2.51	0.45
1:A:197:LYS:HA	1:A:234:LEU:CD1	2.46	0.45
1:B:200:TYR:HD1	1:B:238:LEU:HD23	1.82	0.45
1:A:43:TYR:HB3	6:A:399:HOH:O	2.16	0.45
1:B:239:TYR:CE1	1:B:262:LYS:HD3	2.52	0.45
1:A:147:THR:HB	1:B:54:ALA:CB	2.37	0.45
1:A:60:ILE:N	1:A:60:ILE:CD1	2.81	0.44
1:B:46:MET:O	1:B:50:GLN:HB3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:248:LYS:HD3	1:B:248:LYS:HA	1.69	0.44
1:A:129:VAL:CG1	1:A:133:TYR:CD2	2.98	0.44
1:A:11:LYS:O	1:A:15:VAL:HG23	2.17	0.44
1:A:248:LYS:HD3	1:A:248:LYS:HA	1.74	0.43
1:A:91:TYR:CD2	1:A:125:VAL:HG11	2.52	0.43
1:A:261:LYS:HB3	1:A:261:LYS:NZ	2.33	0.43
1:B:69:TYR:O	1:B:72:ILE:HD13	2.19	0.43
1:A:73[B]:GLU:CD	1:A:73[B]:GLU:H	2.22	0.43
1:B:129:VAL:CG1	1:B:133:TYR:HD2	2.26	0.43
1:B:14:ARG:HD3	1:B:24:LEU:HD22	2.01	0.43
4:Z:1:DA:H1'	4:Z:2:DT:H5''	2.01	0.43
1:B:219:VAL:HG11	1:B:242:ARG:HB2	2.01	0.42
1:A:46:MET:O	1:A:50:GLN:HB3	2.20	0.42
1:B:112[A]:GLN:O	1:B:116:GLN:HG3	2.19	0.42
4:Z:1:DA:C2'	4:Z:2:DT:H5''	2.50	0.42
1:B:11:LYS:O	1:B:15:VAL:HG23	2.19	0.42
1:B:87:LYS:HG2	6:B:393:HOH:O	2.19	0.42
1:B:273:HIS:HA	1:B:276:LYS:HD2	2.03	0.40
1:B:73[B]:GLU:CD	1:B:73[B]:GLU:H	2.23	0.40
1:A:262:LYS:HE3	1:B:269:ILE:CG2	2.52	0.40
1:B:154:ASN:HB2	6:B:352: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	286/293 (98%)	278 (97%)	7 (2%)	1 (0%)	43	58
1	B	286/293 (98%)	277 (97%)	8 (3%)	1 (0%)	43	58
2	P	5/7 (71%)	5 (100%)	0	0	100	100
2	Q	5/7 (71%)	5 (100%)	0	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
All	All	582/600 (97%)	565 (97%)	15 (3%)	2 (0%)	36	58

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	147	THR
1	B	147	THR

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	260/265 (98%)	251 (96%)	9 (4%)	39	59
1	B	260/265 (98%)	253 (97%)	7 (3%)	48	68
2	P	6/6 (100%)	6 (100%)	0	100	100
2	Q	6/6 (100%)	6 (100%)	0	100	100
All	All	532/542 (98%)	516 (97%)	16 (3%)	43	65

All (16) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	31	GLN
1	A	42	VAL
1	A	45	SER
1	A	103	LYS
1	A	221	LYS
1	A	242	ARG
1	A	275	TYR
1	A	277	GLU
1	A	282	LYS
1	B	71	ASP
1	B	72	ILE
1	B	87	LYS
1	B	146	LEU

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Mol	Chain	Res	Type
1	B	151	VAL
1	B	189	HIS
1	B	221	LYS

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

Mol	Chain	Res	Type
1	B	31	GLN
1	B	77	GLN

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 carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 2 ligands modelled in this entry, 2 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

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

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	280/293 (95%)	-0.44	0 100 100	22, 43, 69, 97	0
1	B	280/293 (95%)	-0.42	0 100 100	23, 43, 68, 98	0
2	P	7/7 (100%)	-0.52	0 100 100	26, 29, 58, 63	0
2	Q	7/7 (100%)	-0.69	0 100 100	26, 30, 60, 71	0
3	Y	18/18 (100%)	-0.84	0 100 100	54, 68, 88, 92	1 (5%)
4	Z	18/18 (100%)	-0.82	0 100 100	55, 69, 90, 96	0
All	All	610/636 (95%)	-0.46	0 100 100	22, 44, 74, 98	1 (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 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. 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	B-factors(Å ²)	Q<0.9
5	CA	A	1002	1/1	0.92	0.11	77,77,77,77	0
5	CA	B	1001	1/1	0.96	0.12	71,71,71,71	0

6.5 Other polymers [i](#)

There are no such residues in this entry.