



wwPDB X-ray Structure Validation Summary Report ⓘ

May 16, 2020 – 01:49 am BST

PDB ID : 6JQA
Title : Crystal structure of phyllogen, a phyllody inducing effector protein of phytoplasma.
Authors : Miyatake, H.; Maejima, K.
Deposited on : 2019-03-29
Resolution : 2.40 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

<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
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.11
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.11

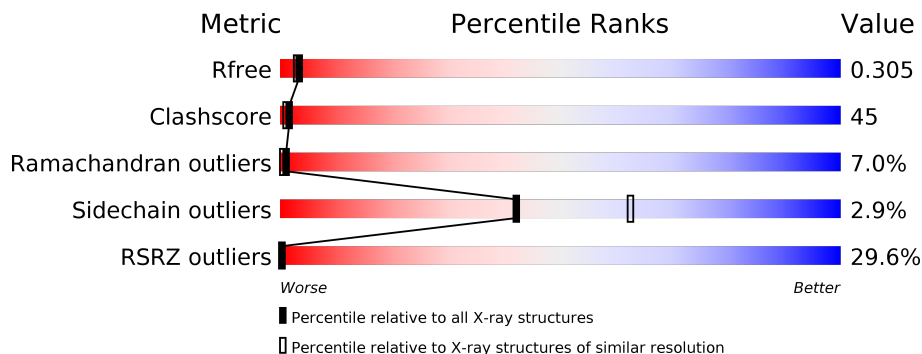
1 Overall quality at a glance

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}	130704	3907 (2.40-2.40)
Clashscore	141614	4398 (2.40-2.40)
Ramachandran outliers	138981	4318 (2.40-2.40)
Sidechain outliers	138945	4319 (2.40-2.40)
RSRZ outliers	127900	3811 (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 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	91	
2	B	91	
2	C	91	
3	D	91	

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 crite-

ria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
1	IYR	A	18	-	-	X	-
2	TYI	B	18	-	-	X	-
4	IOD	A	102	-	-	X	-
4	IOD	A	103	-	-	X	-
4	IOD	B	102	-	-	X	-
4	IOD	B	103	-	-	X	-
4	IOD	B	105	-	-	X	-
4	IOD	B	107	-	-	X	-
4	IOD	B	108	-	-	X	-
4	IOD	D	102	-	-	X	-
4	IOD	D	103	-	-	X	-
4	IOD	D	105	-	-	X	X
4	IOD	D	106	-	-	X	X

2 Entry composition [i](#)

There are 5 unique types of molecules in this entry. The entry contains 5628 atoms, of which 2799 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 Phytoplasmal effector causing phyllody 1.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
			Total	C	H	I	N	O			
1	A	85	1409	430	704	4	130	141	0	0	0

- Molecule 2 is a protein called Phytoplasmal effector causing phyllody 1.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
			Total	C	H	I	N	O			
2	B	88	1449	443	721	6	133	146	0	0	0
2	C	81	1367	417	685	6	125	134	0	0	0

- Molecule 3 is a protein called Phytoplasmal effector causing phyllody 1.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
			Total	C	H	I	N	O			
3	D	81	1368	417	689	3	125	134	0	0	0

- Molecule 4 is IODIDE ION (three-letter code: IOD) (formula: I).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	B	8	Total I 8 8	0	0
4	A	3	Total I 3 3	0	0
4	D	6	Total I 6 6	0	0
4	C	2	Total I 2 2	0	0

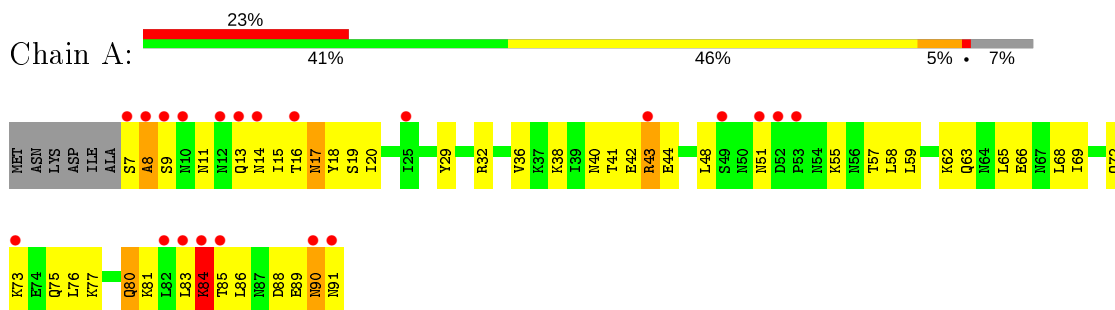
- Molecule 5 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	4	Total O 4 4	0	0
5	B	3	Total O 3 3	0	0
5	C	3	Total O 3 3	0	0
5	D	6	Total O 6 6	0	0

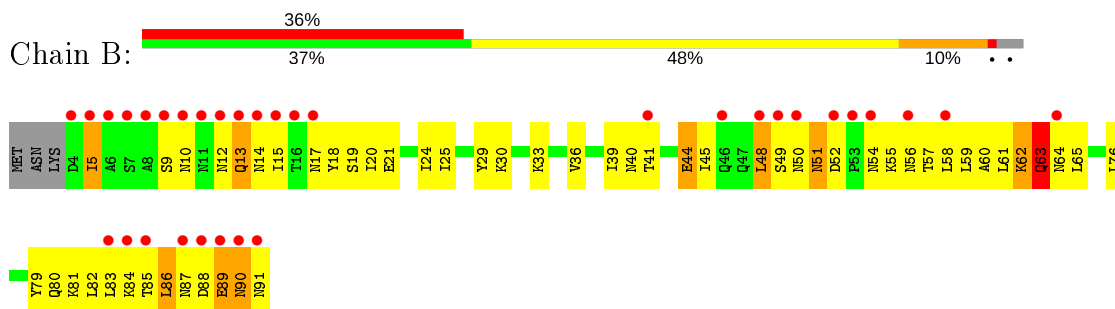
3 Residue-property plots [i](#)

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.

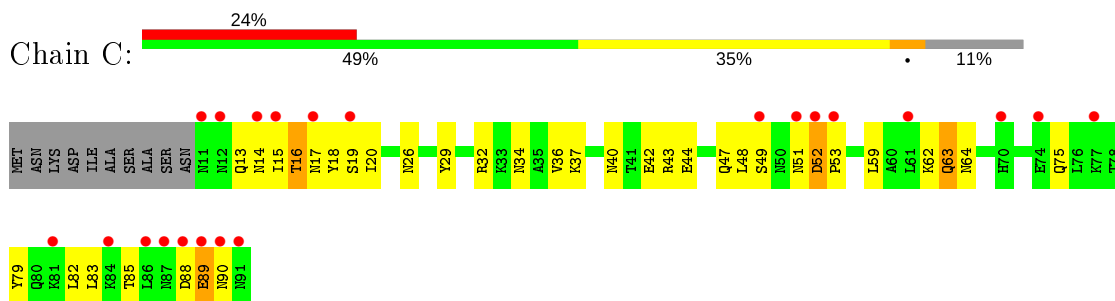
- Molecule 1: Phytoplasmal effector causing phyllody 1



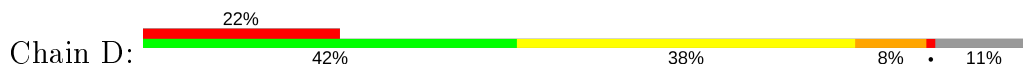
- Molecule 2: Phytoplasmal effector causing phyllody 1

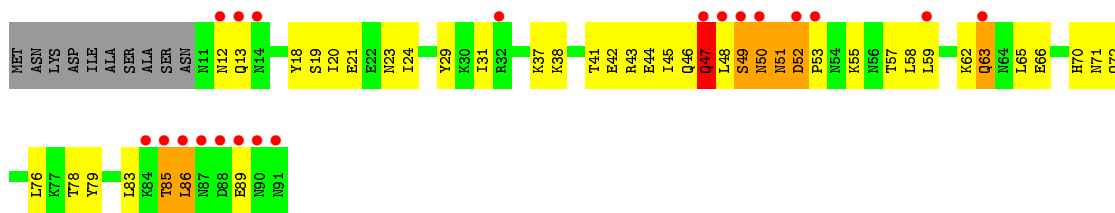


- Molecule 2: Phytoplasmal effector causing phyllody 1



- Molecule 3: Phytoplasmal effector causing phyllody 1





4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	42.84Å 60.66Å 124.87Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	43.51 – 2.40 43.51 – 2.40	Depositor EDS
% Data completeness (in resolution range)	85.5 (43.51-2.40) 85.2 (43.51-2.40)	Depositor EDS
R_{merge}	0.14	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.94 (at 2.39Å)	Xtrriage
Refinement program	PHENIX (1.14_3260: ???)	Depositor
R, R_{free}	0.269 , 0.302 0.274 , 0.305	Depositor DCC
R_{free} test set	1138 reflections (10.06%)	wwPDB-VP
Wilson B-factor (Å ²)	44.8	Xtrriage
Anisotropy	0.276	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.38 , 64.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.87	EDS
Total number of atoms	5628	wwPDB-VP
Average B, all atoms (Å ²)	94.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The analyses of the Patterson function reveals a significant off-origin peak that is 20.97 % of the origin peak, indicating pseudo-translational symmetry. The chance of finding a peak of this or larger height randomly in a structure without pseudo-translational symmetry is equal to 7.7444e-03. The detected translational NCS is most likely also responsible for the elevated intensity ratio.*

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: IOD, TYI, IYR

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	0.65	3/663 (0.5%)	1.28	6/885 (0.7%)
2	B	0.76	3/684 (0.4%)	0.78	0/914
2	C	0.70	2/638 (0.3%)	0.65	0/851
3	D	0.77	4/652 (0.6%)	0.77	3/872 (0.3%)
All	All	0.72	12/2637 (0.5%)	0.90	9/3522 (0.3%)

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
2	B	0	1
2	C	0	1
All	All	0	3

The worst 5 of 12 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	13	GLN	CD-OE1	-10.38	1.01	1.24
3	D	47	GLN	CD-NE2	-8.31	1.12	1.32
3	D	63	GLN	CG-CD	8.30	1.70	1.51
2	C	63	GLN	CG-CD	-8.04	1.32	1.51
3	D	63	GLN	CB-CG	7.91	1.73	1.52

The worst 5 of 9 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	43	ARG	NE-CZ-NH1	27.70	134.15	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	43	ARG	NH1-CZ-NH2	-10.22	108.15	119.40
1	A	84	LYS	CD-CE-NZ	8.06	130.25	111.70
3	D	47	GLN	CG-CD-OE1	7.09	135.79	121.60
1	A	43	ARG	CD-NE-CZ	6.06	132.08	123.60

There are no chirality outliers.

All (3) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	17	ASN	Mainchain
2	B	48	LEU	Peptide
2	C	29	TYI	Mainchain

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	705	704	711	80	8
2	B	728	721	727	118	8
2	C	682	685	687	49	5
3	D	679	689	693	51	5
4	A	3	0	0	5	0
4	B	8	0	0	13	0
4	C	2	0	0	1	0
4	D	6	0	0	7	0
5	A	4	0	0	1	0
5	B	3	0	0	3	0
5	C	3	0	0	1	0
5	D	6	0	0	2	0
All	All	2829	2799	2818	253	16

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 45.

The worst 5 of 253 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)
4:B:102:IOD:I	4:B:103:IOD:I	2.91	1.28
2:B:48:LEU:CD1	2:B:55:LYS:HB2	1.64	1.25
2:B:48:LEU:HD13	2:B:49:SER:O	1.41	1.19
2:B:48:LEU:HD11	2:B:55:LYS:HB2	1.16	1.10
2:B:58:LEU:HD11	4:B:108:IOD:I	2.23	1.07

The worst 5 of 16 symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:89:GLU:OE1	3:D:85:THR:OG1[1_545]	1.41	0.79
1:A:43:ARG:HH21	2:B:36:VAL:O[3_544]	0.89	0.71
1:A:43:ARG:NH2	2:B:36:VAL:O[3_544]	1.63	0.57
2:C:89:GLU:OE1	3:D:85:THR:HG1[1_545]	1.18	0.42
2:C:89:GLU:OE2	3:D:85:THR:HA[1_545]	1.30	0.30

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	80/91 (88%)	66 (82%)	10 (12%)	4 (5%)	2	1
2	B	83/91 (91%)	71 (86%)	6 (7%)	6 (7%)	1	0
2	C	76/91 (84%)	66 (87%)	4 (5%)	6 (8%)	1	0
3	D	77/91 (85%)	64 (83%)	7 (9%)	6 (8%)	1	0
All	All	316/364 (87%)	267 (84%)	27 (8%)	22 (7%)	1	0

5 of 22 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	8	ALA
1	A	84	LYS

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Mol	Chain	Res	Type
2	B	89	GLU
2	C	88	ASP
3	D	47	GLN

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	79/84 (94%)	78 (99%)	1 (1%)	69	84
2	B	81/84 (96%)	77 (95%)	4 (5%)	25	40
2	C	76/84 (90%)	73 (96%)	3 (4%)	32	50
3	D	77/85 (91%)	76 (99%)	1 (1%)	69	84
All	All	313/337 (93%)	304 (97%)	9 (3%)	42	62

5 of 9 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	B	84	LYS
3	D	52	ASP
2	C	59	LEU
2	B	51	ASN
2	C	49	SER

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 9 such sidechains are listed below:

Mol	Chain	Res	Type
2	B	63	GLN
3	D	47	GLN
2	B	90	ASN
1	A	87	ASN
2	B	64	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

11 non-standard protein/DNA/RNA residues 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
3	TYI	D	79	3	13,14,15	1.42	2 (15%)	16,19,21	1.61	2 (12%)
2	TYI	B	79	2	13,14,15	2.05	3 (23%)	16,19,21	1.89	4 (25%)
1	IYR	A	29	1	12,13,14	1.19	1 (8%)	14,17,19	1.93	2 (14%)
1	IYR	A	18	1	12,13,14	1.43	1 (8%)	14,17,19	2.01	4 (28%)
1	TYI	A	79	1	13,14,15	1.59	2 (15%)	16,19,21	1.45	4 (25%)
2	TYI	B	18	2	13,14,15	1.93	3 (23%)	16,19,21	3.07	8 (50%)
2	TYI	C	29	2	13,14,15	3.21	6 (46%)	16,19,21	3.01	7 (43%)
2	TYI	C	18	2	13,14,15	1.51	2 (15%)	16,19,21	1.07	2 (12%)
2	TYI	C	79	2	13,14,15	1.43	2 (15%)	16,19,21	1.47	4 (25%)
3	IYR	D	29	3	12,13,14	1.15	1 (8%)	14,17,19	1.94	3 (21%)
2	TYI	B	29	2	13,14,15	1.56	2 (15%)	16,19,21	1.40	2 (12%)

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	TYI	D	79	3	-	1/5/6/8	0/1/1/1
2	TYI	B	79	2	-	3/5/6/8	0/1/1/1
1	IYR	A	29	1	-	3/5/6/8	0/1/1/1
1	IYR	A	18	1	-	0/5/6/8	0/1/1/1
1	TYI	A	79	1	-	2/5/6/8	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	TYI	B	18	2	-	2/5/6/8	0/1/1/1
2	TYI	C	29	2	-	1/5/6/8	0/1/1/1
2	TYI	C	18	2	-	0/5/6/8	0/1/1/1
2	TYI	C	79	2	-	1/5/6/8	0/1/1/1
3	IYR	D	29	3	-	1/5/6/8	0/1/1/1
2	TYI	B	29	2	-	1/5/6/8	0/1/1/1

The worst 5 of 25 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	29	TYI	CE2-I2	-8.33	1.91	2.10
2	B	79	TYI	CE2-I2	-5.41	1.97	2.10
2	B	18	TYI	CE2-I2	-5.28	1.98	2.10
2	C	29	TYI	O-C	4.28	1.37	1.19
1	A	18	IYR	CE-IE	-4.28	2.00	2.10

The worst 5 of 42 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	C	29	TYI	CD2-CE2-CZ	7.39	135.39	121.21
2	B	18	TYI	CD2-CE2-I2	-6.33	106.93	118.61
2	B	18	TYI	CZ-CE2-I2	6.19	128.97	119.42
3	D	29	IYR	OF-CF-CE	5.17	125.45	119.19
2	C	29	TYI	CG-CB-CA	-4.98	104.02	114.10

There are no chirality outliers.

5 of 15 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	B	79	TYI	C-CA-CB-CG
2	B	79	TYI	O-C-CA-CB
1	A	29	IYR	O-C-CA-CB
1	A	79	TYI	C-CA-CB-CG
2	B	18	TYI	N-CA-CB-CG

There are no ring outliers.

9 monomers are involved in 36 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	D	79	TYI	2	0
2	B	79	TYI	4	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	A	29	IYR	2	0
1	A	18	IYR	8	0
2	B	18	TYI	10	0
2	C	18	TYI	5	0
2	C	79	TYI	4	0
3	D	29	IYR	1	0
2	B	29	TYI	2	0

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 19 ligands modelled in this entry, 19 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 [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	82/91 (90%)	1.38	21 (25%) 0 0	28, 55, 204, 280	0
2	B	85/91 (93%)	3.15	33 (38%) 0 0	34, 70, 541, 698	0
2	C	78/91 (85%)	1.52	22 (28%) 0 0	34, 60, 165, 327	0
3	D	79/91 (86%)	1.59	20 (25%) 0 0	37, 61, 134, 322	0
All	All	324/364 (89%)	1.93	96 (29%) 0 0	28, 62, 277, 698	0

The worst 5 of 96 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	B	11	ASN	16.6
2	B	12	ASN	16.3
2	B	5	ILE	15.6
2	B	91	ASN	13.5
2	B	8	ALA	13.3

6.2 Non-standard residues in protein, DNA, RNA chains [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
2	TYI	B	18	14/15	0.65	0.24	60,73,96,96	2
1	IYR	A	18	13/14	0.82	0.18	42,52,63,64	1
2	TYI	C	79	14/15	0.86	0.23	50,78,87,87	2
2	TYI	B	79	14/15	0.87	0.21	63,76,87,88	2
1	IYR	A	29	13/14	0.88	0.20	33,44,52,57	1
1	TYI	A	79	14/15	0.89	0.20	32,39,46,47	2
2	TYI	C	18	14/15	0.93	0.16	101,111,134,134	2

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
2	TYI	C	29	14/15	0.94	0.27	34,47,60,60	2
3	IYR	D	29	13/14	0.94	0.30	43,55,66,68	1
3	TYI	D	79	14/15	0.95	0.20	49,56,69,74	2
2	TYI	B	29	14/15	0.97	0.17	40,51,62,68	2

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
4	IOD	D	106	1/1	0.19	1.55	343,343,343,343	0
4	IOD	D	105	1/1	0.33	0.71	307,307,307,307	0
4	IOD	B	107	1/1	0.52	0.38	277,277,277,277	0
4	IOD	D	101	1/1	0.73	0.17	130,130,130,130	0
4	IOD	B	108	1/1	0.75	0.19	245,245,245,245	0
4	IOD	D	102	1/1	0.76	0.34	52,52,52,52	1
4	IOD	B	105	1/1	0.82	0.14	85,85,85,85	1
4	IOD	B	102	1/1	0.82	0.27	65,65,65,65	1
4	IOD	B	101	1/1	0.86	0.18	78,78,78,78	1
4	IOD	B	104	1/1	0.86	0.21	79,79,79,79	1
4	IOD	B	103	1/1	0.90	0.13	66,66,66,66	1
4	IOD	D	104	1/1	0.91	0.17	105,105,105,105	1
4	IOD	A	103	1/1	0.93	0.12	143,143,143,143	0
4	IOD	C	102	1/1	0.94	0.09	120,120,120,120	1
4	IOD	B	106	1/1	0.94	0.14	78,78,78,78	1
4	IOD	C	101	1/1	0.96	0.20	102,102,102,102	1
4	IOD	A	102	1/1	0.96	0.20	58,58,58,58	1
4	IOD	D	103	1/1	0.97	0.28	63,63,63,63	1
4	IOD	A	101	1/1	0.99	0.45	33,33,33,33	1

6.5 Other polymers [i](#)

There are no such residues in this entry.