



Full wwPDB X-ray Structure Validation Report ⓘ

Oct 27, 2024 – 03:51 PM EDT

PDB ID : 1Q6R
Title : Structure of 3-keto-L-gulonate 6-phosphate decarboxylase with bound L-xylulose 5-phosphate
Authors : Wise, E.L.; Yew, W.S.; Gerlt, J.A.; Rayment, I.
Deposited on : 2003-08-13
Resolution : 1.76 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 types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

MolProbity : 4.02b-467
Mogul : 2022.3.0, CSD as543be (2022)
Xtriage (Phenix) : 1.20.1
EDS : 3.0
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4 : 9.0.003 (Gargrove)
Density-Fitness : 1.0.11
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.39

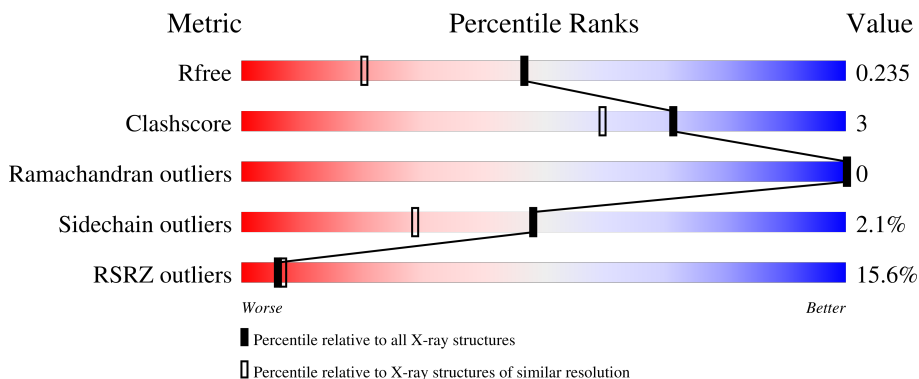
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 1.76 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}	164625	2888 (1.76-1.76)
Clashscore	180529	3097 (1.76-1.76)
Ramachandran outliers	177936	3072 (1.76-1.76)
Sidechain outliers	177891	3072 (1.76-1.76)
RSRZ outliers	164620	2887 (1.76-1.76)

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 of 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	216	 15% 88% 10%
1	B	216	 16% 89% 9%

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	LX1	A	7301	X	-	-	-
3	LX1	B	9301	X	-	-	-

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 3598 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.

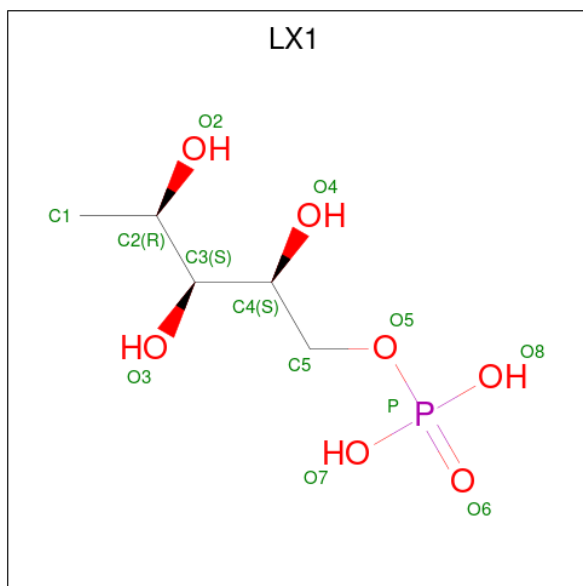
- Molecule 1 is a protein called 3-keto-L-gulonate 6-phosphate decarboxylase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	214	Total 1639	C 1040	N 284	O 307	S 8	0	0	0
1	B	215	Total 1628	C 1033	N 286	O 301	S 8	0	0	0

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

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

- Molecule 3 is L-XYLULOSE 5-PHOSPHATE (three-letter code: LX1) (formula: C₅H₁₃O₇P).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	A	1	Total	C	O	P	0	0
			13	5	7	1		
3	B	1	Total	C	O	P	0	0
			13	5	7	1		

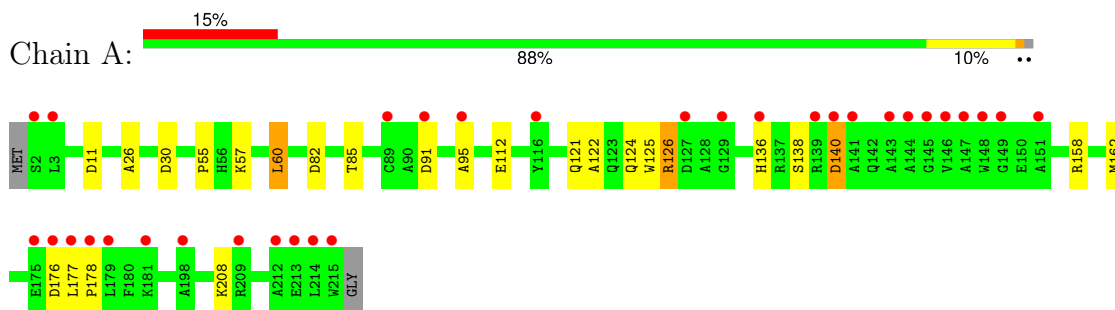
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	147	Total	O	0	0
			147	147		
4	B	156	Total	O	0	0
			156	156		

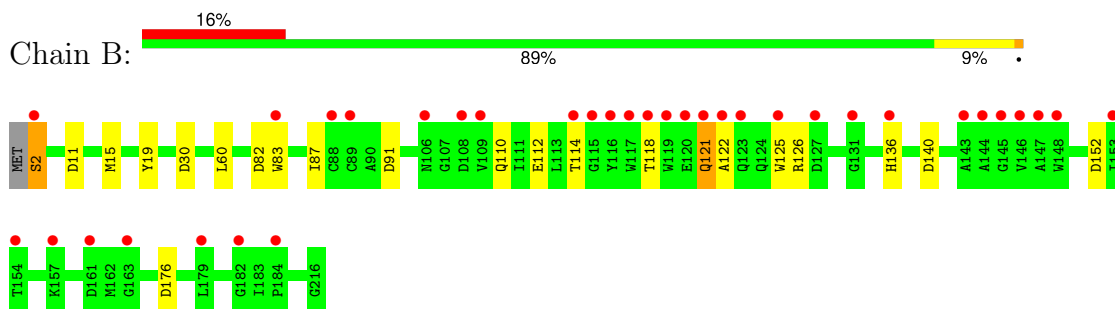
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA, DNA and oligosaccharide 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: 3-keto-L-gulonate 6-phosphate decarboxylase



- Molecule 1: 3-keto-L-gulonate 6-phosphate decarboxylase



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	123.91Å 41.58Å 91.63Å 90.00° 96.41° 90.00°	Depositor
Resolution (Å)	91.29 – 1.76 91.05 – 1.76	Depositor EDS
% Data completeness (in resolution range)	98.0 (91.29-1.76) 98.0 (91.05-1.76)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.00 (at 1.46Å)	Xtrriage
Refinement program	REFMAC 5.1.24, CNS	Depositor
R, R_{free}	0.190 , 0.229 0.198 , 0.235	Depositor DCC
R_{free} test set	2276 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	19.8	Xtrriage
Anisotropy	0.418	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 34.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	3598	wwPDB-VP
Average B, all atoms (Å ²)	29.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 7.42% 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: LX1, 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	0.79	0/1668	0.93	7/2266 (0.3%)
1	B	0.88	2/1656 (0.1%)	0.98	9/2249 (0.4%)
All	All	0.84	2/3324 (0.1%)	0.95	16/4515 (0.4%)

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	B	0	1

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2	SER	C-N	9.96	1.56	1.34
1	B	19	TYR	CE1-CZ	-5.46	1.31	1.38

All (16) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	2	SER	O-C-N	-9.66	107.25	122.70
1	A	30	ASP	CB-CG-OD2	7.65	125.18	118.30
1	B	30	ASP	CB-CG-OD2	6.63	124.27	118.30
1	B	152	ASP	CB-CG-OD2	6.44	124.09	118.30
1	B	11	ASP	CB-CG-OD2	6.37	124.03	118.30
1	B	82	ASP	CB-CG-OD2	6.23	123.90	118.30
1	A	126	ARG	NE-CZ-NH2	-6.13	117.23	120.30
1	B	91	ASP	CB-CG-OD2	6.01	123.71	118.30
1	A	11	ASP	CB-CG-OD2	5.97	123.67	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	15	MET	CG-SD-CE	5.78	109.45	100.20
1	A	82	ASP	CB-CG-OD2	5.61	123.35	118.30
1	B	176	ASP	CB-CG-OD2	5.47	123.22	118.30
1	A	176	ASP	CB-CG-OD2	5.41	123.17	118.30
1	A	140	ASP	CB-CG-OD2	5.39	123.15	118.30
1	A	91	ASP	CB-CG-OD2	5.34	123.11	118.30
1	B	140	ASP	CB-CG-OD2	5.32	123.09	118.30

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	B	2	SER	Mainchain

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	1639	0	1632	14	0
1	B	1628	0	1627	7	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
3	A	13	0	8	4	0
3	B	13	0	8	2	0
4	A	147	0	0	4	1
4	B	156	0	0	0	2
All	All	3598	0	3275	21	2

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 3.

All (21) 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:B:60:LEU:HD12	1:B:83:TRP:HE3	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:122:ALA:HA	1:A:125:TRP:CE3	2.34	0.63
1:A:136:HIS:CE1	3:A:7301:LX1:C1	2.88	0.57
1:B:60:LEU:HD11	1:B:110:GLN:NE2	2.20	0.57
1:A:140:ASP:OD1	4:A:7448:HOH:O	2.18	0.53
1:B:122:ALA:HA	1:B:125:TRP:CE3	2.45	0.51
1:B:136:HIS:CE1	3:B:9301:LX1:C1	2.94	0.50
1:A:95:ALA:HB2	4:A:7421:HOH:O	2.12	0.49
1:A:136:HIS:NE2	3:A:7301:LX1:H13	2.29	0.48
1:B:136:HIS:NE2	3:B:9301:LX1:H13	2.30	0.47
1:A:60:LEU:HD21	1:A:85:THR:HG23	1.95	0.47
1:B:118:THR:O	1:B:121:GLN:HB2	2.16	0.45
1:A:55:PRO:HB3	4:A:7440:HOH:O	2.16	0.44
1:A:136:HIS:HE1	3:A:7301:LX1:C1	2.31	0.44
1:B:87:ILE:HD11	1:B:114:THR:HB	2.00	0.44
1:A:208:LYS:NZ	4:A:7415:HOH:O	2.49	0.43
1:A:177:LEU:N	1:A:178:PRO:CD	2.83	0.41
1:A:121:GLN:O	1:A:124:GLN:HB2	2.22	0.40
1:A:158:ARG:O	1:A:162:MET:HG3	2.22	0.40
1:A:26:ALA:O	1:A:57:LYS:HE3	2.22	0.40
1:A:136:HIS:CE1	3:A:7301:LX1:H13	2.56	0.40

All (2) 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)
4:B:9431:HOH:O	4:B:9455:HOH:O[4_545]	2.06	0.14
4:A:7311:HOH:O	4:B:9426:HOH:O[2_655]	2.18	0.02

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	212/216 (98%)	209 (99%)	3 (1%)	0	100	100
1	B	213/216 (99%)	208 (98%)	5 (2%)	0	100	100
All	All	425/432 (98%)	417 (98%)	8 (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	166/169 (98%)	162 (98%)	4 (2%)	44	24
1	B	163/169 (96%)	160 (98%)	3 (2%)	54	37
All	All	329/338 (97%)	322 (98%)	7 (2%)	48	29

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

Mol	Chain	Res	Type
1	A	60	LEU
1	A	112	GLU
1	A	126	ARG
1	A	138	SER
1	B	112	GLU
1	B	121	GLN
1	B	126	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (8) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	13	GLN
1	A	110	GLN
1	A	206	GLN
1	B	7	GLN
1	B	13	GLN
1	B	80	ASN

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Mol	Chain	Res	Type
1	B	110	GLN
1	B	206	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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 4 ligands modelled in this entry, 2 are monoatomic - leaving 2 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	LX1	B	9301	2	12,12,12	3.02	5 (41%)	16,17,17	3.06	8 (50%)
3	LX1	A	7301	2	12,12,12	3.21	4 (33%)	16,17,17	3.26	8 (50%)

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	LX1	B	9301	2	1/1/4/4	3/14/14/14	-

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	LX1	A	7301	2	1/1/4/4	3/14/14/14	-

All (9) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	7301	LX1	O2-C2	-7.18	1.24	1.43
3	B	9301	LX1	O2-C2	-6.82	1.25	1.43
3	B	9301	LX1	P-O5	6.16	1.79	1.60
3	A	7301	LX1	P-O5	5.66	1.78	1.60
3	A	7301	LX1	P-O6	4.87	1.65	1.50
3	A	7301	LX1	C1-C2	-2.79	1.43	1.51
3	B	9301	LX1	P-O6	2.71	1.58	1.50
3	B	9301	LX1	P-O8	2.46	1.63	1.54
3	B	9301	LX1	C1-C2	-2.37	1.45	1.51

All (16) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	9301	LX1	O2-C2-C3	8.98	124.65	109.77
3	A	7301	LX1	O2-C2-C3	8.22	123.38	109.77
3	A	7301	LX1	O4-C4-C5	-4.72	99.58	109.99
3	B	9301	LX1	O2-C2-C1	4.47	123.05	109.68
3	A	7301	LX1	O8-P-O5	4.26	117.78	106.67
3	A	7301	LX1	O7-P-O5	-4.15	95.85	106.67
3	A	7301	LX1	O2-C2-C1	4.05	121.81	109.68
3	B	9301	LX1	O8-P-O5	3.66	116.20	106.67
3	A	7301	LX1	C4-C3-C2	-3.42	107.22	112.48
3	B	9301	LX1	O4-C4-C5	-2.94	103.50	109.99
3	B	9301	LX1	C4-C3-C2	-2.78	108.20	112.48
3	A	7301	LX1	C5-C4-C3	2.74	117.39	112.22
3	B	9301	LX1	O3-C3-C4	2.35	114.27	108.93
3	A	7301	LX1	C1-C2-C3	2.20	114.81	112.11
3	B	9301	LX1	O7-P-O5	-2.19	100.96	106.67
3	B	9301	LX1	C5-C4-C3	2.14	116.26	112.22

All (2) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
3	A	7301	LX1	C2
3	B	9301	LX1	C2

All (6) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	7301	LX1	O2-C2-C3-C4
3	B	9301	LX1	O2-C2-C3-C4
3	A	7301	LX1	O2-C2-C3-O3
3	B	9301	LX1	O2-C2-C3-O3
3	B	9301	LX1	C4-C5-O5-P
3	A	7301	LX1	C4-C5-O5-P

There are no ring outliers.

2 monomers are involved in 6 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	B	9301	LX1	2	0
3	A	7301	LX1	4	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

6.1 Protein, DNA and RNA chains

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	214/216 (99%)	0.95	32 (14%) 6 7	17, 27, 46, 51	0
1	B	215/216 (99%)	0.89	35 (16%) 5 6	17, 26, 46, 51	0
All	All	429/432 (99%)	0.92	67 (15%) 6 7	17, 27, 46, 51	0

All (67) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	116	TYR	4.9
1	B	116	TYR	4.7
1	A	141	ALA	4.6
1	A	2	SER	4.6
1	B	114	THR	4.5
1	B	118	THR	4.5
1	A	148	TRP	4.2
1	A	144	ALA	4.2
1	A	143	ALA	3.9
1	A	147	ALA	3.9
1	B	145	GLY	3.7
1	B	146	VAL	3.5
1	B	131	GLY	3.5
1	A	89	CYS	3.5
1	A	145	GLY	3.4
1	B	89	CYS	3.3
1	A	129	GLY	3.3
1	A	178	PRO	3.3
1	B	120	GLU	3.3
1	A	212	ALA	3.3
1	B	122	ALA	3.2
1	B	147	ALA	3.1
1	B	144	ALA	3.1
1	A	146	VAL	3.1

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Mol	Chain	Res	Type	RSRZ
1	A	151	ALA	2.9
1	A	209	ARG	2.9
1	A	175	GLU	2.8
1	A	179	LEU	2.8
1	B	179	LEU	2.8
1	A	177	LEU	2.7
1	B	119	TRP	2.7
1	B	154	THR	2.7
1	B	143	ALA	2.7
1	A	149	GLY	2.7
1	B	148	TRP	2.7
1	B	2	SER	2.6
1	A	140	ASP	2.6
1	A	214	LEU	2.6
1	B	117	TRP	2.6
1	B	109	VAL	2.6
1	B	127	ASP	2.6
1	A	198	ALA	2.5
1	B	161	ASP	2.5
1	A	181	LYS	2.5
1	B	121	GLN	2.5
1	A	136	HIS	2.5
1	A	127	ASP	2.5
1	B	83	TRP	2.5
1	B	125	TRP	2.5
1	B	182	GLY	2.5
1	B	115	GLY	2.4
1	A	3	LEU	2.4
1	B	88	CYS	2.4
1	A	215	TRP	2.3
1	B	163	GLY	2.3
1	B	157	LYS	2.3
1	A	139	ARG	2.3
1	B	153	ILE	2.2
1	B	136	HIS	2.2
1	A	213	GLU	2.2
1	A	91	ASP	2.1
1	B	184	PRO	2.1
1	A	95	ALA	2.0
1	A	176	ASP	2.0
1	B	108	ASP	2.0
1	B	123	GLN	2.0

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Mol	Chain	Res	Type	RSRZ
1	B	106	ASN	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 monosaccharides 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(\AA^2)	Q<0.9
3	LX1	A	7301	13/13	0.95	0.09	21,22,25,26	0
3	LX1	B	9301	13/13	0.97	0.07	19,21,25,27	0
2	MG	A	7300	1/1	0.98	0.04	21,21,21,21	0
2	MG	B	9300	1/1	0.98	0.05	20,20,20,20	0

6.5 Other polymers [i](#)

There are no such residues in this entry.