



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 1, 2026 – 05:14 PM UTC

PDB ID : 5LAX / pdb_00005lax
Title : Crystal structure of HLA_DRB1*04:01 in complex with alpha-enolase peptide 26-40
Authors : Dubnovitsky, A.; Kozhukh, G.; Sandalova, T.; Achour, A.
Deposited on : 2016-06-15
Resolution : 2.60 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 : 4-5-2 with Phenix2.0
Mogul : 2022.3.0, CSD as543be (2022)
Xtriage (Phenix) : 2.0
EDS : 3.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4 : 9.0.010 (Gargrove)
Density-Fitness : 1.0.12
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

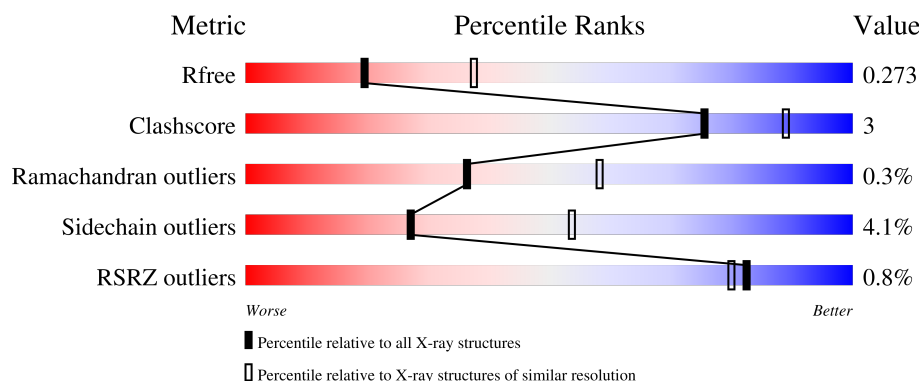
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.60 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}	180053	4008 (2.60-2.60)
Clashscore	190562	4347 (2.60-2.60)
Ramachandran outliers	187476	4277 (2.60-2.60)
Sidechain outliers	187428	4277 (2.60-2.60)
RSRZ outliers	180081	4008 (2.60-2.60)

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	189	 85% 11% .
1	C	189	 83% 11% . 5%
2	B	198	 87% 10% . .
2	D	198	 86% 8% . 5%
3	E	15	 87% 7% 7%

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Mol	Chain	Length	Quality of chain
3	F	15	 87%7%7%

2 Entry composition [i](#)

There are 5 unique types of molecules in this entry. The entry contains 6575 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 HLA class II histocompatibility antigen, DR alpha chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	181	Total	C	N	O	S	0	0	0
			1488	963	242	278	5			
1	C	179	Total	C	N	O	S	0	0	0
			1474	956	240	273	5			

There are 16 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	182	SER	-	expression tag	UNP P01903
A	183	SER	-	expression tag	UNP P01903
A	184	ALA	-	expression tag	UNP P01903
A	185	ASP	-	expression tag	UNP P01903
A	186	LEU	-	expression tag	UNP P01903
A	187	VAL	-	expression tag	UNP P01903
A	188	PRO	-	expression tag	UNP P01903
A	189	ARG	-	expression tag	UNP P01903
C	182	SER	-	expression tag	UNP P01903
C	183	SER	-	expression tag	UNP P01903
C	184	ALA	-	expression tag	UNP P01903
C	185	ASP	-	expression tag	UNP P01903
C	186	LEU	-	expression tag	UNP P01903
C	187	VAL	-	expression tag	UNP P01903
C	188	PRO	-	expression tag	UNP P01903
C	189	ARG	-	expression tag	UNP P01903

- Molecule 2 is a protein called HLA class II histocompatibility antigen, DRB1-4 beta chain.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	193	Total	C	N	O	S	0	0	0
			1590	1003	282	300	5			
2	D	188	Total	C	N	O	S	0	0	0
			1560	987	277	291	5			

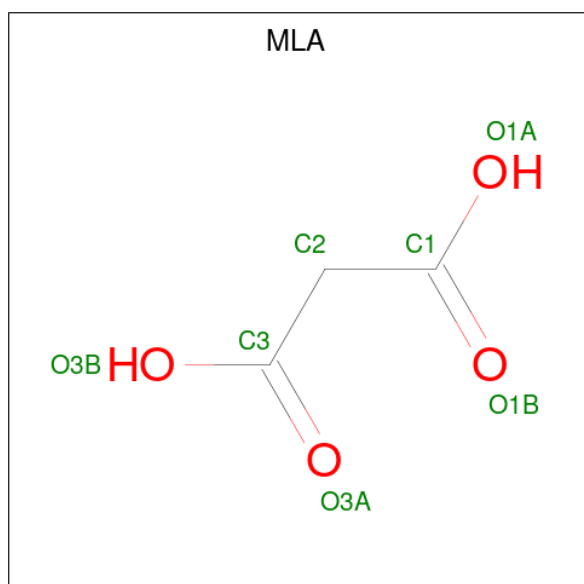
There are 16 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	191	SER	-	expression tag	UNP P13760
B	192	SER	-	expression tag	UNP P13760
B	193	ALA	-	expression tag	UNP P13760
B	194	ASP	-	expression tag	UNP P13760
B	195	LEU	-	expression tag	UNP P13760
B	196	VAL	-	expression tag	UNP P13760
B	197	PRO	-	expression tag	UNP P13760
B	198	ARG	-	expression tag	UNP P13760
D	191	SER	-	expression tag	UNP P13760
D	192	SER	-	expression tag	UNP P13760
D	193	ALA	-	expression tag	UNP P13760
D	194	ASP	-	expression tag	UNP P13760
D	195	LEU	-	expression tag	UNP P13760
D	196	VAL	-	expression tag	UNP P13760
D	197	PRO	-	expression tag	UNP P13760
D	198	ARG	-	expression tag	UNP P13760

- Molecule 3 is a protein called alpha-enolase peptideTSKGLFRAAVPSGAS.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
3	E	14	Total	C	N	O	0	0	0
			95	59	18	18			
3	F	14	Total	C	N	O	0	0	0
			95	59	18	18			

- Molecule 4 is MALONIC ACID (CCD ID: MLA) (formula: C₃H₄O₄).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	D	1	Total	C	O	0	0
			7	3	4		

- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	101	Total	O	0	0
			101	101		
5	B	57	Total	O	0	0
			57	57		
5	C	47	Total	O	0	0
			47	47		
5	D	56	Total	O	0	0
			56	56		
5	E	4	Total	O	0	0
			4	4		
5	F	1	Total	O	0	0
			1	1		

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.

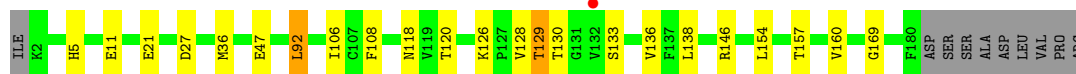
- Molecule 1: HLA class II histocompatibility antigen, DR alpha chain

Chain A: 



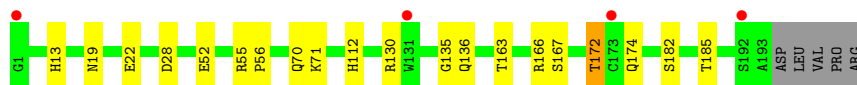
- Molecule 1: HLA class II histocompatibility antigen, DR alpha chain

Chain C: 



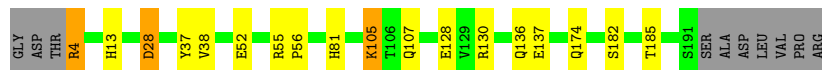
- Molecule 2: HLA class II histocompatibility antigen, DRB1-4 beta chain

Chain B: 



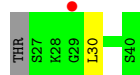
- Molecule 2: HLA class II histocompatibility antigen, DRB1-4 beta chain

Chain D: 



- Molecule 3: alpha-enolase peptideTSKGLFRAAVPSGAS

Chain E: 



- Molecule 3: alpha-enolase peptideTSKGLFRAAVPSGAS

Chain F:  87% 7% 7%



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	69.18Å 73.45Å 144.60Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	47.56 – 2.60 47.56 – 2.60	Depositor EDS
% Data completeness (in resolution range)	99.5 (47.56-2.60) 99.7 (47.56-2.60)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.71 (at 2.61Å)	Xtriage
Refinement program	REFMAC 5.8.0131	Depositor
R, R_{free}	0.191 , 0.270 0.195 , 0.273	Depositor DCC
R_{free} test set	1167 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	37.9	Xtriage
Anisotropy	0.387	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.32 , 38.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	6575	wwPDB-VP
Average B, all atoms (Å ²)	44.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.24% 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: MLA

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	0.89	0/1533	1.00	1/2089 (0.0%)
1	C	0.90	1/1519 (0.1%)	0.98	1/2070 (0.0%)
2	B	0.89	0/1634	0.95	1/2221 (0.0%)
2	D	0.92	0/1604	0.93	2/2180 (0.1%)
3	E	0.69	0/96	0.84	0/126
3	F	0.64	0/96	0.82	0/126
All	All	0.89	1/6482 (0.0%)	0.96	5/8812 (0.1%)

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
2	B	0	1

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	47	GLU	CD-OE1	5.05	1.34	1.25

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	169	GLY	N-CA-C	6.33	121.42	114.40
2	D	4	ARG	CA-C-N	-5.90	113.89	119.85
2	D	4	ARG	C-N-CA	-5.90	113.89	119.85
2	B	167	SER	N-CA-C	5.05	119.07	113.01
1	C	169	GLY	N-CA-C	5.02	119.97	114.40

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	B	163	THR	Peptide

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	1488	0	1425	7	0
1	C	1474	0	1416	10	0
2	B	1590	0	1499	11	0
2	D	1560	0	1472	13	0
3	E	95	0	97	1	0
3	F	95	0	97	1	0
4	D	7	0	2	0	0
5	A	101	0	0	0	0
5	B	57	0	0	0	0
5	C	47	0	0	1	0
5	D	56	0	0	2	0
5	E	4	0	0	0	0
5	F	1	0	0	0	0
All	All	6575	0	6008	37	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 3.

All (37) 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:23:MET:HE3	1:A:138:LEU:HD23	1.77	0.66
2:D:13:HIS:HD2	2:D:28:ASP:OD1	1.85	0.59
2:B:13:HIS:HD2	2:B:28:ASP:OD1	1.84	0.59
2:B:52:GLU:OE1	2:D:52:GLU:OE1	2.21	0.58
1:C:5:HIS:HD2	1:C:27:ASP:OD2	1.87	0.58
2:B:70:GLN:OE1	2:B:71:LYS:NZ	2.38	0.57
2:D:130:ARG:NH1	5:D:302:HOH:O	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:130:ARG:CZ	2:B:174:GLN:HE21	2.18	0.55
2:B:52:GLU:OE2	2:D:55:ARG:NH1	2.42	0.51
1:C:92:LEU:HD12	1:C:106:ILE:HB	1.91	0.51
1:A:4:GLU:O	1:A:5:HIS:ND1	2.44	0.51
2:D:13:HIS:CD2	2:D:28:ASP:OD1	2.63	0.50
2:B:13:HIS:CD2	2:B:28:ASP:OD1	2.64	0.50
1:A:53:SER:O	3:E:30:LEU:HD12	2.11	0.49
2:D:174:GLN:HG3	2:D:185:THR:HG22	1.94	0.49
1:A:118:ASN:HB3	1:A:166:GLU:HB2	1.94	0.48
2:B:172:THR:HG22	2:B:185:THR:HG22	1.95	0.48
1:C:108:PHE:HZ	1:C:146:ARG:CZ	2.26	0.48
2:D:37:TYR:CD1	2:D:38:VAL:HG12	2.49	0.47
2:D:185:THR:HG21	5:D:308:HOH:O	2.15	0.46
1:C:136:VAL:O	1:C:138:LEU:HD13	2.15	0.46
1:C:128:VAL:O	1:C:129:THR:C	2.60	0.45
2:D:81:HIS:HE1	3:F:30:LEU:O	2.01	0.44
1:C:138:LEU:CD1	1:C:138:LEU:N	2.81	0.44
1:A:28:GLY:O	1:A:146:ARG:NH2	2.51	0.43
2:B:112:HIS:NE2	1:C:157:THR:O	2.50	0.43
1:C:130:THR:OG1	5:C:201:HOH:O	2.21	0.43
1:A:139:PRO:O	1:A:146:ARG:NH1	2.50	0.42
1:C:136:VAL:O	1:C:138:LEU:CD1	2.68	0.42
1:A:21:GLU:OE2	1:A:137:PHE:O	2.38	0.42
2:B:55:ARG:N	2:B:56:PRO:CD	2.83	0.41
2:B:130:ARG:CZ	2:B:174:GLN:NE2	2.83	0.41
2:D:105:LYS:HD3	2:D:107:GLN:NE2	2.36	0.41
2:B:172:THR:CG2	2:B:185:THR:HG22	2.51	0.41
1:C:11:GLU:OE2	2:D:13:HIS:HE1	2.04	0.41
2:D:130:ARG:HD3	2:D:137:GLU:OE1	2.20	0.40
2:D:55:ARG:N	2:D:56:PRO:CD	2.84	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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	179/189 (95%)	174 (97%)	5 (3%)	0	100	100
1	C	177/189 (94%)	172 (97%)	4 (2%)	1 (1%)	21	42
2	B	191/198 (96%)	182 (95%)	8 (4%)	1 (0%)	24	46
2	D	186/198 (94%)	179 (96%)	7 (4%)	0	100	100
3	E	12/15 (80%)	12 (100%)	0	0	100	100
3	F	12/15 (80%)	12 (100%)	0	0	100	100
All	All	757/804 (94%)	731 (97%)	24 (3%)	2 (0%)	36	58

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	C	129	THR
2	B	135	GLY

5.3.2 Protein sidechains ⓘ

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	166/173 (96%)	159 (96%)	7 (4%)	26	52
1	C	164/173 (95%)	155 (94%)	9 (6%)	19	41
2	B	173/178 (97%)	167 (96%)	6 (4%)	32	59
2	D	170/178 (96%)	164 (96%)	6 (4%)	32	59
3	E	9/10 (90%)	9 (100%)	0	100	100
3	F	9/10 (90%)	9 (100%)	0	100	100
All	All	691/722 (96%)	663 (96%)	28 (4%)	27	54

All (28) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	15	ASN
1	A	40	GLU
1	A	46	GLU
1	A	67	LYS
1	A	92	LEU
1	A	120	THR
1	A	126	LYS
2	B	19	ASN
2	B	22	GLU
2	B	136	GLN
2	B	166	ARG
2	B	172	THR
2	B	182	SER
1	C	21	GLU
1	C	36	MET
1	C	92	LEU
1	C	118	ASN
1	C	120	THR
1	C	126	LYS
1	C	133	SER
1	C	154	LEU
1	C	160	VAL
2	D	4	ARG
2	D	28	ASP
2	D	105	LYS
2	D	128	GLU
2	D	136	GLN
2	D	182	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (17) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	15	ASN
1	A	18	GLN
1	A	118	ASN
1	A	167	HIS
2	B	10	GLN
2	B	13	HIS
2	B	110	GLN
2	B	120	ASN
2	B	149	GLN
2	B	156	GLN
2	B	174	GLN

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Mol	Chain	Res	Type
1	C	5	HIS
1	C	15	ASN
1	C	18	GLN
2	D	13	HIS
2	D	81	HIS
2	D	156	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](#)

1 ligand is 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	$\# Z > 2$
4	MLA	D	200	-	6,6,6	1.24	0	7,7,7	1.41	1 (14%)

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
4	MLA	D	200	-	-	2/4/4/4	-

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	D	200	MLA	O3B-C3-C2	2.64	122.68	114.51

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	D	200	MLA	O1A-C1-C2-C3
4	D	200	MLA	O1B-C1-C2-C3

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	181/189 (95%)	-0.41	0 100 100	22, 35, 65, 84	0
1	C	179/189 (94%)	-0.05	1 (0%) 85 83	23, 46, 77, 87	0
2	B	193/198 (97%)	-0.01	4 (2%) 63 58	22, 51, 96, 117	0
2	D	188/198 (94%)	-0.45	0 100 100	22, 35, 65, 85	0
3	E	14/15 (93%)	0.09	1 (7%) 22 17	32, 39, 55, 58	0
3	F	14/15 (93%)	-0.36	0 100 100	27, 36, 47, 58	0
All	All	769/804 (95%)	-0.23	6 (0%) 82 80	22, 41, 80, 117	0

All (6) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	C	132	VAL	2.5
3	E	29	GLY	2.5
2	B	173	CYS	2.2
2	B	192	SER	2.2
2	B	131	TRP	2.1
2	B	1	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 oligosaccharides 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($\text{\AA}^2$)	Q<0.9
4	MLA	D	200	7/7	0.80	0.13	57,60,63,68	0

6.5 Other polymers [i](#)

There are no such residues in this entry.