



Full wwPDB X-ray Structure Validation Report ⓘ

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PDB ID : 6B2T / pdb_00006b2t
Title : Crystal structure of Xanthomonas campestris OleA H285D
Authors : Jensen, M.R.; Goblirsch, B.R.; Esler, M.A.; Christenson, J.K.; Mohamed, F.A.; Wackett, L.P.; Wilmot, C.M.
Deposited on : 2017-09-20
Resolution : 2.80 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

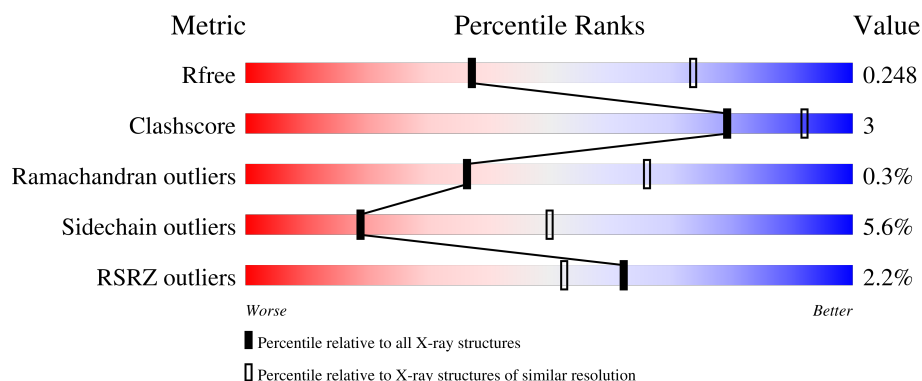
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.80 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	3866 (2.80-2.80)
Clashscore	190562	4276 (2.80-2.80)
Ramachandran outliers	187476	4196 (2.80-2.80)
Sidechain outliers	187428	4198 (2.80-2.80)
RSRZ outliers	180081	3869 (2.80-2.80)

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	358	
2	B	358	

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 5305 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-oxoacyl-[ACP] synthase III.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	345	Total	C	N	O	S	0	1	0
			2625	1648	462	499	16			

There are 21 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1	MET	-	initiating methionine	UNP Q8PDX2
A	2	GLY	-	expression tag	UNP Q8PDX2
A	3	SER	-	expression tag	UNP Q8PDX2
A	4	SER	-	expression tag	UNP Q8PDX2
A	5	HIS	-	expression tag	UNP Q8PDX2
A	6	HIS	-	expression tag	UNP Q8PDX2
A	7	HIS	-	expression tag	UNP Q8PDX2
A	8	HIS	-	expression tag	UNP Q8PDX2
A	9	HIS	-	expression tag	UNP Q8PDX2
A	10	HIS	-	expression tag	UNP Q8PDX2
A	11	SER	-	expression tag	UNP Q8PDX2
A	12	SER	-	expression tag	UNP Q8PDX2
A	13	GLY	-	expression tag	UNP Q8PDX2
A	14	LEU	-	expression tag	UNP Q8PDX2
A	15	VAL	-	expression tag	UNP Q8PDX2
A	16	PRO	-	expression tag	UNP Q8PDX2
A	17	ARG	-	expression tag	UNP Q8PDX2
A	18	GLY	-	expression tag	UNP Q8PDX2
A	19	SER	-	expression tag	UNP Q8PDX2
A	20	HIS	-	expression tag	UNP Q8PDX2
A	285	ASP	HIS	engineered mutation	UNP Q8PDX2

- Molecule 2 is a protein called 3-oxoacyl-[ACP] synthase III.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	339	Total	C	N	O	S	0	1	0
			2584	1621	453	494	16			

There are 21 discrepancies between the modelled and reference sequences:

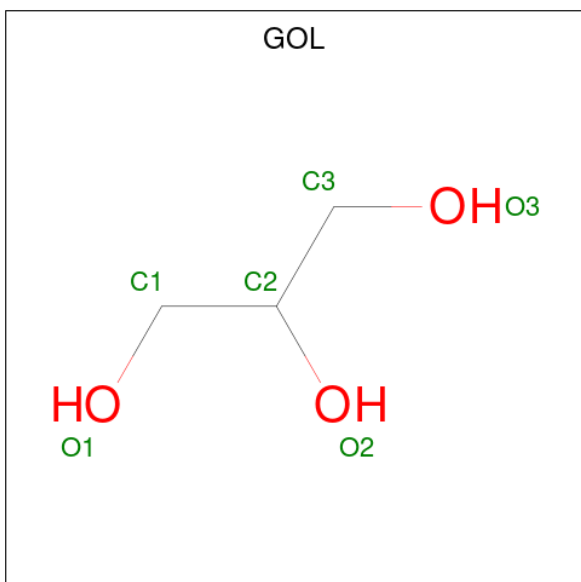
Chain	Residue	Modelled	Actual	Comment	Reference
B	1	MET	-	initiating methionine	UNP Q8PDX2
B	2	GLY	-	expression tag	UNP Q8PDX2
B	3	SER	-	expression tag	UNP Q8PDX2
B	4	SER	-	expression tag	UNP Q8PDX2
B	5	HIS	-	expression tag	UNP Q8PDX2
B	6	HIS	-	expression tag	UNP Q8PDX2
B	7	HIS	-	expression tag	UNP Q8PDX2
B	8	HIS	-	expression tag	UNP Q8PDX2
B	9	HIS	-	expression tag	UNP Q8PDX2
B	10	HIS	-	expression tag	UNP Q8PDX2
B	11	SER	-	expression tag	UNP Q8PDX2
B	12	SER	-	expression tag	UNP Q8PDX2
B	13	GLY	-	expression tag	UNP Q8PDX2
B	14	LEU	-	expression tag	UNP Q8PDX2
B	15	VAL	-	expression tag	UNP Q8PDX2
B	16	PRO	-	expression tag	UNP Q8PDX2
B	17	ARG	-	expression tag	UNP Q8PDX2
B	18	GLY	-	expression tag	UNP Q8PDX2
B	19	SER	-	expression tag	UNP Q8PDX2
B	20	HIS	-	expression tag	UNP Q8PDX2
B	285	ASP	HIS	engineered mutation	UNP Q8PDX2

- Molecule 3 is PHOSPHATE ION (CCD ID: PO4) (formula: O₄P).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	O	P	0	0
			5	4	1		
3	A	1	Total	O	P	0	0
			5	4	1		
3	A	1	Total	O	P	0	0
			5	4	1		
3	B	1	Total	O	P	0	0
			5	4	1		
3	B	1	Total	O	P	0	0
			5	4	1		

- Molecule 4 is GLYCEROL (CCD ID: GOL) (formula: $C_3H_8O_3$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total 6	C 3	O 3	0	0
4	B	1	Total 6	C 3	O 3	0	0
4	B	1	Total 6	C 3	O 3	0	0

- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	25	Total 25	O 25	0	0
5	B	28	Total 28	O 28	0	0

4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	81.42Å 85.00Å 102.96Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	50.00 – 2.80 50.00 – 2.80	Depositor EDS
% Data completeness (in resolution range)	99.6 (50.00-2.80) 100.0 (50.00-2.80)	Depositor EDS
R_{merge}	0.18	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.04 (at 2.69Å)	Xtriage
Refinement program	REFMAC 5.8.0158	Depositor
R, R_{free}	0.172 , 0.247 0.177 , 0.248	Depositor DCC
R_{free} test set	1009 reflections (4.97%)	wwPDB-VP
Wilson B-factor (Å ²)	40.6	Xtriage
Anisotropy	0.074	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 33.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	0.015 for k,h,-l	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	5305	wwPDB-VP
Average B, all atoms (Å ²)	42.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.76% 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: PO4, CSO, GOL

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	0.80	0/2664	0.97	1/3607 (0.0%)
2	B	0.82	0/2607	0.98	2/3528 (0.1%)
All	All	0.81	0/5271	0.98	3/7135 (0.0%)

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	145	ALA	N-CA-C	6.17	118.81	111.71
2	B	238	LEU	N-CA-C	5.54	118.25	111.82
2	B	343	LEU	N-CA-C	5.00	116.67	109.07

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	2625	0	2663	15	0
2	B	2584	0	2615	14	0
3	A	15	0	0	0	0
3	B	10	0	0	0	0
4	A	6	0	8	0	0
4	B	12	0	16	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	A	25	0	0	0	0
5	B	28	0	0	1	0
All	All	5305	0	5302	28	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 (28) 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)
2:B:284:ILE:HG22	2:B:343:LEU:HD11	1.86	0.58
1:A:69:ILE:HD13	1:A:202:THR:HB	1.88	0.56
1:A:284:ILE:HG22	1:A:343:LEU:HD13	1.88	0.54
2:B:284:ILE:HG22	2:B:343:LEU:CD1	2.42	0.50
1:A:143[B]:CYS:SG	5:B:523:HOH:O	2.60	0.48
1:A:344:GLY:O	1:A:351:CYS:HA	2.15	0.47
1:A:261:ALA:HB2	1:A:345:ILE:HD11	1.97	0.47
1:A:108:ASN:HB3	1:A:138:ASP:OD1	2.14	0.46
1:A:138:ASP:HB2	2:B:140:ALA:HB3	1.97	0.46
2:B:56:LEU:HD21	2:B:191:GLU:HA	1.97	0.46
2:B:36:ALA:HB3	2:B:73:ARG:HB3	1.98	0.45
2:B:144:LEU:HD21	2:B:344:GLY:C	2.41	0.45
1:A:196:ASN:HB3	1:A:247:VAL:HG13	1.98	0.45
2:B:199:ALA:HB3	2:B:248:THR:HG23	2.00	0.44
2:B:180:THR:HG22	2:B:184:MET:HE2	2.00	0.44
2:B:106:LEU:C	2:B:106:LEU:HD23	2.44	0.43
1:A:143[A]:CYS:SG	1:A:346:GLY:HA2	2.58	0.43
1:A:125:SER:OG	1:A:136:THR:HG21	2.19	0.43
1:A:157:LEU:HD23	1:A:162:ILE:HG13	2.01	0.43
1:A:186:SER:O	1:A:189:VAL:HG12	2.20	0.42
1:A:295:PHE:HZ	1:A:343:LEU:HD22	1.85	0.42
2:B:108:ASN:HB3	2:B:138:ASP:OD1	2.19	0.42
2:B:36:ALA:HB3	2:B:73:ARG:CB	2.50	0.41
1:A:69:ILE:CD1	1:A:202:THR:HB	2.49	0.41
2:B:38:HIS:O	2:B:73:ARG:HA	2.21	0.41
2:B:261:ALA:HB2	2:B:345:ILE:HD11	2.03	0.41
1:A:45:ILE:HG22	1:A:49:LEU:HD12	2.02	0.40
2:B:101:GLU:H	2:B:101:GLU:CD	2.29	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	344/358 (96%)	333 (97%)	11 (3%)	0	100	100
2	B	336/358 (94%)	316 (94%)	18 (5%)	2 (1%)	21	51
All	All	680/716 (95%)	649 (95%)	29 (4%)	2 (0%)	36	66

All (2) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	B	189	VAL
2	B	141	ASN

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	280/290 (97%)	272 (97%)	8 (3%)	37	73
2	B	273/289 (94%)	250 (92%)	23 (8%)	10	32
All	All	553/579 (96%)	522 (94%)	31 (6%)	19	50

All (31) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	14	LEU
1	A	144	LEU
1	A	271	VAL
1	A	308	THR

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Mol	Chain	Res	Type
1	A	316	ILE
1	A	335	LYS
1	A	336	LYS
1	A	343	LEU
2	B	20	HIS
2	B	21	MET
2	B	48	ARG
2	B	60	THR
2	B	66	VAL
2	B	77	GLN
2	B	98	ILE
2	B	175	LEU
2	B	176	VAL
2	B	188	ASP
2	B	189	VAL
2	B	191	GLU
2	B	237	LYS
2	B	240	ARG
2	B	243	LEU
2	B	248	THR
2	B	250	THR
2	B	252	LEU
2	B	271	VAL
2	B	308	THR
2	B	316	ILE
2	B	335	LYS
2	B	336	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (9) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	25	ASN
1	A	77	GLN
1	A	87	GLN
1	A	174	ASN
1	A	262	GLN
1	A	291	HIS
1	A	350	ASN
2	B	20	HIS
2	B	350	ASN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

2 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	$\# Z > 2$
2	CSO	B	143[A]	2	3,6,7	0.60	0	1,6,8	0.22	0
2	CSO	B	143[B]	2	3,6,7	0.64	0	1,6,8	0.44	0

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
2	CSO	B	143[A]	2	-	0/1/5/7	-
2	CSO	B	143[B]	2	-	1/1/5/7	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (1) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	B	143[B]	CSO	N-CA-CB-SG

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

8 ligands 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	PO4	B	401	-	4,4,4	0.95	0	6,6,6	0.66	0
3	PO4	A	402	-	4,4,4	0.87	0	6,6,6	1.01	0
3	PO4	A	401	-	4,4,4	0.85	0	6,6,6	0.53	0
4	GOL	A	404	-	5,5,5	0.28	0	5,5,5	0.76	0
4	GOL	B	403	-	5,5,5	0.41	0	5,5,5	0.25	0
3	PO4	B	402	-	4,4,4	0.85	0	6,6,6	0.85	0
4	GOL	B	404	-	5,5,5	0.41	0	5,5,5	0.67	0
3	PO4	A	403	-	4,4,4	0.83	0	6,6,6	0.83	0

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	GOL	A	404	-	-	1/4/4/4	-
4	GOL	B	403	-	-	4/4/4/4	-
4	GOL	B	404	-	-	2/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (7) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	B	403	GOL	O1-C1-C2-C3
4	B	403	GOL	C1-C2-C3-O3
4	B	404	GOL	C1-C2-C3-O3
4	B	403	GOL	O1-C1-C2-O2
4	B	403	GOL	O2-C2-C3-O3
4	B	404	GOL	O2-C2-C3-O3
4	A	404	GOL	O2-C2-C3-O3

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	345/358 (96%)	-0.53	1 (0%) 90 86	14, 36, 53, 63	1 (0%)
2	B	338/358 (94%)	-0.24	14 (4%) 41 33	22, 38, 86, 98	0
All	All	683/716 (95%)	-0.39	15 (2%) 62 52	14, 37, 73, 98	1 (0%)

All (15) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	B	190	THR	3.6
2	B	191	GLU	3.2
1	A	14	LEU	3.1
2	B	253	LEU	2.9
2	B	243	LEU	2.8
2	B	187	PRO	2.6
2	B	186	SER	2.6
2	B	58	ILE	2.5
2	B	242	ASN	2.4
2	B	20	HIS	2.3
2	B	238	LEU	2.3
2	B	184	MET	2.3
2	B	195	ARG	2.2
2	B	237	LYS	2.1
2	B	57	GLY	2.0

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($\text{\AA}^2$)	Q<0.9
2	CSO	B	143[A]	7/8	0.97	0.06	33,33,34,35	7
2	CSO	B	143[B]	7/8	0.97	0.06	34,34,34,37	7

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
3	PO4	B	402	5/5	0.87	0.17	80,86,92,94	0
3	PO4	B	401	5/5	0.92	0.20	71,76,80,81	0
3	PO4	A	401	5/5	0.92	0.10	74,80,81,90	0
4	GOL	A	404	6/6	0.92	0.13	49,51,55,57	0
3	PO4	A	403	5/5	0.93	0.16	68,73,84,84	0
3	PO4	A	402	5/5	0.93	0.14	71,74,86,91	0
4	GOL	B	403	6/6	0.93	0.10	45,47,49,53	0
4	GOL	B	404	6/6	0.93	0.12	49,49,52,53	0

6.5 Other polymers [i](#)

There are no such residues in this entry.