

Full wwPDB X-ray Structure Validation Report (i)

Aug 31, 2022 – 01:15 PM EDT

PDB ID	:	7UXT
Title	:	Crystal structure of ligand-free SeThsA
Authors	:	Shi, Y.; Masic, V.; Mosaiab, T.; Nanson, J.D.; Kobe, B.; Ve, T.
Deposited on	:	2022-05-06
Resolution	:	3.40 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 (i) 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 (1)) 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	:	2.29
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)	:	2.29

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure: $X\text{-}RAY \, DIFFRACTION$

The reported resolution of this entry is 3.40 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	$egin{array}{c} { m Whole \ archive} \ (\#{ m Entries}) \end{array}$	${f Similar\ resolution}\ (\#{ m Entries,\ resolution\ range}({ m \AA}))$
R_{free}	130704	1026 (3.48-3.32)
Clashscore	141614	1055 (3.48-3.32)
Ramachandran outliers	138981	1038 (3.48-3.32)
Sidechain outliers	138945	1038 (3.48-3.32)
RSRZ outliers	127900	2173 (3.50-3.30)

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 <=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	А	497	85%	9%	6%
1	В	497	88%	6%	6%



$7\mathrm{UXT}$

2 Entry composition (i)

There are 3 unique types of molecules in this entry. The entry contains 15111 atoms, of which 7536 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.

Mol	Chain	Residues		Atoms				ZeroOcc	AltConf	Trace	
1	Р	467	Total	С	Η	Ν	0	\mathbf{S}	0	0	0
	D	407	7517	2397	3747	626	735	12	0	0	0
1	Δ	460	Total	С	Η	Ν	0	S	0	0	0
	1 A	409	7556	2412	3767	628	737	12	0	0	0

• Molecule 1 is a protein called USG protein.

Chain	Residue	Modelled	Actual	Comment	Reference
В	-23	MET	-	expression tag	UNP A0A8I2F269
В	-22	HIS	-	expression tag	UNP A0A8I2F269
В	-21	HIS	-	expression tag	UNP A0A8I2F269
В	-20	HIS	-	expression tag	UNP A0A8I2F269
В	-19	HIS	-	expression tag	UNP A0A8I2F269
В	-18	HIS	-	expression tag	UNP A0A8I2F269
В	-17	HIS	-	expression tag	UNP A0A8I2F269
В	-16	SER	-	expression tag	UNP A0A8I2F269
В	-15	SER	-	expression tag	UNP A0A8I2F269
В	-14	GLY	-	expression tag	UNP A0A8I2F269
В	-13	VAL	-	expression tag	UNP A0A8I2F269
В	-12	ASP	-	expression tag	UNP A0A8I2F269
В	-11	LEU	-	expression tag	UNP A0A8I2F269
В	-10	GLY	-	expression tag	UNP A0A8I2F269
В	-9	THR	-	expression tag	UNP A0A8I2F269
В	-8	GLU	-	expression tag	UNP A0A8I2F269
В	-7	ASN	-	expression tag	UNP A0A8I2F269
В	-6	LEU	-	expression tag	UNP A0A8I2F269
В	-5	TYR	-	expression tag	UNP A0A8I2F269
В	-4	PHE	-	expression tag	UNP A0A8I2F269
В	-3	GLN	-	expression tag	UNP A0A8I2F269
B	-2	SER	-	expression tag	UNP A0A8I2F269
В	-1	ASN	-	expression tag	UNP A0A8I2F269
В	0	ALA	-	expression tag	UNP A0A8I2F269
A	-23	MET	_	expression tag	UNP A0A8I2F269

There are 48 discrepancies between the modelled and reference sequences:

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Chain	Residue	Modelled	Actual	Comment	Reference
А	-22	HIS	-	expression tag	UNP A0A8I2F269
А	-21	HIS	-	expression tag	UNP A0A8I2F269
А	-20	HIS	-	expression tag	UNP A0A8I2F269
А	-19	HIS	-	expression tag	UNP A0A8I2F269
А	-18	HIS	-	expression tag	UNP A0A8I2F269
А	-17	HIS	-	expression tag	UNP A0A8I2F269
А	-16	SER	-	expression tag	UNP A0A8I2F269
А	-15	SER	-	expression tag	UNP A0A8I2F269
А	-14	GLY	-	expression tag	UNP A0A8I2F269
А	-13	VAL	-	expression tag	UNP A0A8I2F269
А	-12	ASP	-	expression tag	UNP A0A8I2F269
А	-11	LEU	-	expression tag	UNP A0A8I2F269
А	-10	GLY	-	expression tag	UNP A0A8I2F269
А	-9	THR	-	expression tag	UNP A0A8I2F269
А	-8	GLU	-	expression tag	UNP A0A8I2F269
А	-7	ASN	-	expression tag	UNP A0A8I2F269
А	-6	LEU	-	expression tag	UNP A0A8I2F269
А	-5	TYR	-	expression tag	UNP A0A8I2F269
А	-4	PHE	-	expression tag	UNP A0A8I2F269
A	-3	GLN	-	expression tag	UNP A0A8I2F269
A	-2	SER	-	expression tag	UNP A0A8I2F269
А	-1	ASN	-	expression tag	UNP A0A8I2F269
A	0	ALA	-	expression tag	UNP A0A8I2F269

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• Molecule 2 is TRIETHYLENE GLYCOL (three-letter code: PGE) (formula: $C_6H_{14}O_4$).





Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
2	В	1	Total 24	С 6	Н 14	0 4	0	0

• Molecule 3 is GLYCEROL (three-letter code: GOL) (formula: $C_3H_8O_3$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
3	А	1	Total 14	$\begin{array}{c} \mathrm{C} \\ \mathrm{3} \end{array}$	Н 8	O 3	0	0



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: USG protein



4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 2 2 21	Depositor
Cell constants	98.81Å 274.36Å 89.54Å	Depositor
a, b, c, α , β , γ	90.00° 90.00° 90.00°	Depositor
Bosolution(A)	74.98 - 3.40	Depositor
Resolution (A)	74.98 - 3.40	EDS
% Data completeness	99.8 (74.98-3.40)	Depositor
(in resolution range)	99.7 (74.98-3.40)	EDS
R_{merge}	0.11	Depositor
R _{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	$1.28 (at 3.41 \text{\AA})$	Xtriage
Refinement program	PHENIX 1.20.1_4487	Depositor
B B.	0.235 , 0.291	Depositor
II, II, <i>free</i>	0.238 , 0.288	DCC
R_{free} test set	848 reflections (4.94%)	wwPDB-VP
Wilson B-factor $(Å^2)$	126.2	Xtriage
Anisotropy	0.177	Xtriage
Bulk solvent $k_{sol}(e/A^3)$, $B_{sol}(A^2)$	0.36 , 87.4	EDS
L-test for $twinning^2$	$ < L >=0.44, < L^2>=0.27$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	15111	wwPDB-VP
Average B, all atoms $(Å^2)$	159.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 3.55% of the height of the origin peak. No significant pseudotranslation is detected.

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.



¹Intensities estimated from amplitudes.

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: GOL, PGE

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).

Mal	Chain	Bond	lengths	Bond angles		
	Unam	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	А	0.28	0/3857	0.49	0/5190	
1	В	0.27	0/3837	0.50	0/5163	
All	All	0.27	0/7694	0.50	0/10353	

There are no bond length outliers.

There are no bond angle outliers.

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	А	3789	3767	3766	25	1
1	В	3770	3747	3746	16	2
2	В	10	14	14	0	0
3	А	6	8	8	1	0
All	All	7575	7536	7534	41	3

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 (41) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.



7	IIVT	
1	UAI	

Atom_1	Atom_2	Interatomic	Clash
Atom-1	Atom-2	distance (Å)	overlap (Å)
1:A:450:CYS:HG	1:A:457:SER:HG	0.73	0.72
1:A:63:ASP:OD2	1:A:66:ASN:ND2	2.38	0.56
1:A:77:ARG:NH1	1:A:168:ASP:OD2	2.37	0.53
1:B:323:TYR:CE1	1:B:329:GLU:HA	2.45	0.52
1:A:2:PHE:HA	1:A:7:GLU:HG2	1.93	0.51
1:A:298:GLN:O	1:A:302:GLU:HG3	2.11	0.51
1:A:72:SER:HB2	1:A:80:ILE:HD12	1.93	0.50
1:B:72:SER:HB2	1:B:80:ILE:HD12	1.92	0.49
1:A:226:CYS:SG	1:A:227:ILE:N	2.86	0.49
1:A:300:THR:O	1:A:303:ASN:OD1	2.30	0.49
1:A:135:ASP:OD2	1:A:178:LYS:N	2.44	0.49
1:A:204:ASN:O	1:A:208:VAL:HG23	2.15	0.47
1:A:130:TYR:HB2	1:A:145:PHE:CG	2.50	0.47
1:B:77:ARG:NH1	1:B:168:ASP:OD2	2.42	0.46
1:A:368:LEU:HD12	1:A:368:LEU:H	1.81	0.46
1:B:200:PHE:H	1:B:228:MET:HE1	1.81	0.45
1:A:3:ILE:HG22	1:A:3:ILE:O	2.16	0.45
1:A:132:LYS:HD3	1:A:138:LEU:HD23	1.99	0.45
1:A:351:THR:HG21	1:A:376:MET:CE	2.47	0.44
1:A:459:LYS:O	1:A:460:ASN:C	2.55	0.44
1:B:450:CYS:O	1:B:451:ASP:HB2	2.18	0.43
1:B:434:ILE:HG13	1:B:435:SER:N	2.33	0.43
1:B:51:ALA:HB1	1:B:56:LEU:O	2.18	0.43
1:A:21:ILE:CG1	1:A:26:LEU:HD22	2.49	0.42
1:A:327:VAL:HG23	1:A:328:GLY:N	2.35	0.42
1:B:450:CYS:O	1:B:451:ASP:CB	2.67	0.42
1:B:403:TYR:HB2	1:B:426:ILE:HD13	2.02	0.42
1:A:314:LYS:HA	1:A:338:TYR:CE1	2.54	0.42
1:B:305:ILE:HD13	1:B:327:VAL:HA	2.01	0.42
1:B:293:TYR:O	1:B:296:TYR:O	2.39	0.41
1:B:436:ASP:OD1	1:B:437:LYS:N	2.54	0.41
1:B:459:LYS:O	1:B:460:ASN:C	2.57	0.41
1:B:221:THR:O	1:B:221:THR:HG22	2.18	0.41
1:B:305:ILE:HG21	1:B:327:VAL:O	2.21	0.41
1:A:21:ILE:HG13	1:A:26:LEU:HD22	2.03	0.41
1:A:377:ILE:HD12	1:A:405:LEU:HD23	2.03	0.41
1:B:49:GLU:HB3	1:B:50:PRO:HD3	2.02	0.41
1:A:454:ILE:O	1:A:458:VAL:HG13	2.20	0.41
1:A:220:ASN:C	1:A:222:ARG:H	2.24	0.40
1:A:220:ASN:HB3	3:A:501:GOL:O2	2.22	0.40
1:A:430:THR:HG22	1:A:434:ILE:HD11	2.04	0.40

All (3) symmetry-related close contacts are listed below. The label for Atom-2 includes the sym-



Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:323:TYR:OH	1:A:323:TYR:OH[3_555]	1.83	0.37
1:B:141:THR:O	1:B:191:LYS:HZ3[3_555]	1.54	0.06
1:B:141:THR:O	1:B:191:LYS:NZ[3_555]	2.16	0.04

metry operator and encoded unit-cell translations to be applied.

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	Perce	ntiles
1	А	467/497~(94%)	443 (95%)	24~(5%)	0	100	100
1	В	465/497~(94%)	441 (95%)	23~(5%)	1 (0%)	47	78
All	All	932/994~(94%)	884 (95%)	47 (5%)	1 (0%)	51	82

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	В	451	ASP

5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent side chain 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	Percei	ntiles
1	А	418/443~(94%)	415 (99%)	3~(1%)	84	92
1	В	416/443~(94%)	414 (100%)	2~(0%)	88	94
All	All	834/886~(94%)	829~(99%)	5 (1%)	86	94



All (5) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	В	88	PHE
1	В	144	ASN
1	А	130	TYR
1	А	355	PHE
1	А	449	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

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 monosaccharides in this entry.

5.6 Ligand geometry (i)

2 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).

Mal	Turne	Chain	Dec	Tiple	B	ond leng	gths	E	Bond ang	gles
	Type	Unain	nes		Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	GOL	А	501	-	5,5,5	0.92	0	$5,\!5,\!5$	0.95	0
2	PGE	В	501	-	9,9,9	0.35	0	8,8,8	0.23	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 t	the	Torsion	and	Rings	columns.
'-' means	no outliers of that kind	were ide	ntified.								

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	GOL	А	501	-	-	3/4/4/4	-
2	PGE	В	501	-	-	1/7/7/7	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (4) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	А	501	GOL	O1-C1-C2-C3
3	А	501	GOL	O1-C1-C2-O2
2	В	501	PGE	C4-C3-O2-C2
3	А	501	GOL	C1-C2-C3-O3

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	А	501	GOL	1	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 (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, 95^{th} 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	А	469/497~(94%)	0.70	57 (12%) 4 5	90, 139, 196, 217	0
1	В	467/497~(93%)	0.68	51 (10%) 5 6	96, 152, 197, 210	0
All	All	936/994~(94%)	0.69	108 (11%) 4 5	90, 143, 197, 217	0

All (108) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ	
1	А	287	SER	6.8	
1	В	382	ILE	6.3	
1	В	327	VAL	6.2	
1	В	326	GLY	5.3	
1	В	416	ILE	4.9	
1	В	414	LEU	4.7	
1	А	382	ILE	4.2	
1	А	386	LEU	4.2	
1	В	285	PHE	4.1	
1	В	386	LEU	4.1	
1	В	383	ALA	4.0	
1	А	385	PHE	3.9	
1	А	392	ALA	3.9	
1	А	461	ILE	3.8	
1	А	416	ILE	3.6	
1	В	196	LEU	3.6	
1	В	288	GLY	3.6	
1	А	126	MET	3.6	
1	A	227	ILE	3.6	
1	В	415	PRO	3.5	
1	A	384	ILE	3.4	
1	В	287	SER	3.4	
1	A	285	PHE	3.3	
1	A	2	PHE	3.3	

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Mol	Chain	Res	Type	RSRZ	
1	А	54	ILE	3.3	
1	А	56	LEU	3.1	
1	А	288	GLY	3.1	
1	А	34	LEU	3.1	
1	А	377	ILE	3.0	
1	А	414	LEU	3.0	
1	В	385	PHE	3.0	
1	В	227	ILE	3.0	
1	В	156	VAL	3.0	
1	В	384	ILE	3.0	
1	В	40	PHE	2.9	
1	В	332	LEU	2.9	
1	А	13	LEU	2.9	
1	В	109	PHE	2.8	
1	В	101	LEU	2.8	
1	В	413	CYS	2.8	
1	В	106	ILE	2.8	
1	А	196	LEU	2.7	
1	А	415	PRO	2.7	
1	А	352	LEU	2.6	
1	А	395	ILE	2.6	
1	А	418	TYR	2.6	
1	А	422	ALA	2.6	
1	А	284	ILE	2.6	
1	В	8	VAL	2.6	
1	А	193	PHE	2.5	
1	В	152	LEU	2.5	
1	А	312	LEU	2.5	
1	А	387	PHE	2.5	
1	А	286	ILE	2.5	
1	А	383	ALA	2.5	
1	В	412	VAL	2.4	
1	А	290	ALA	2.4	
1	А	447	ASN	2.4	
1	В	467	ILE	2.4	
1	В	195	PHE	2.4	
1	А	43	TRP	2.4	
1	В	418	TYR	2.4	
1	А	317	TYR	2.4	
1	В	151	LYS	2.4	
1	А	330	PHE	2.3	
1	А	226	CYS	2.3	

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Mol	Chain	Res	Type	RSRZ
1	A	345	LYS	2.3
1	В	17	ILE	2.3
1	В	54	ILE	2.3
1	А	40	PHE	2.3
1	А	321	ASN	2.3
1	А	442	ALA	2.3
1	А	194	LEU	2.3
1	А	64	LEU	2.3
1	А	71	TYR	2.3
1	В	272	LEU	2.2
1	В	260	TYR	2.2
1	А	335	VAL	2.2
1	В	286	ILE	2.2
1	В	43	TRP	2.2
1	В	4	ILE	2.2
1	А	289	SER	2.2
1	В	330	PHE	2.2
1	А	320	VAL	2.2
1	А	281	ARG	2.2
1	В	461	ILE	2.2
1	В	88	PHE	2.2
1	В	149	VAL	2.2
1	А	257	ILE	2.2
1	А	323	TYR	2.1
1	А	411	LEU	2.1
1	В	434	ILE	2.1
1	А	28	ALA	2.1
1	А	399	VAL	2.1
1	В	335	VAL	2.1
1	А	152	LEU	2.1
1	В	426	ILE	2.1
1	А	388	GLY	2.1
1	А	101	LEU	2.1
1	В	84	ILE	2.0
1	В	164	ILE	2.0
1	В	319	ILE	2.0
1	А	47	LEU	2.0
1	В	349	PHE	2.0
1	В	305	ILE	2.0
1	В	377	ILE	2.0
1	В	100	LEU	2.0
1	В	312	LEU	2.0

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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, 95^{th} 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
3	GOL	А	501	6/6	0.62	0.36	118,147,181,181	0
2	PGE	В	501	10/10	0.72	0.22	116,143,147,156	0

6.5 Other polymers (i)

There are no such residues in this entry.

