



Full wwPDB X-ray Structure Validation Report ⓘ

Feb 1, 2016 – 07:33 AM GMT

PDB ID : 3B7S
Title : [E296Q]LTA4H in complex with RSR substrate
Authors : Tholander, F.; Haeggstrom, J.; Thunnissen, M.; Muroya, A.; Roques, B.-P.;
Fournie-Zaluski, M.-C.
Deposited on : 2007-10-31
Resolution : 1.47 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
<http://wwpdb.org/validation/2016/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 : 1.7 (RC4), CSD as536be (2015)
Xtriage (Phenix) : 1.9-1692
EDS : rb-20026688
Percentile statistics : 20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac : 5.8.0135
CCP4 : 6.5.0
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : trunk26865

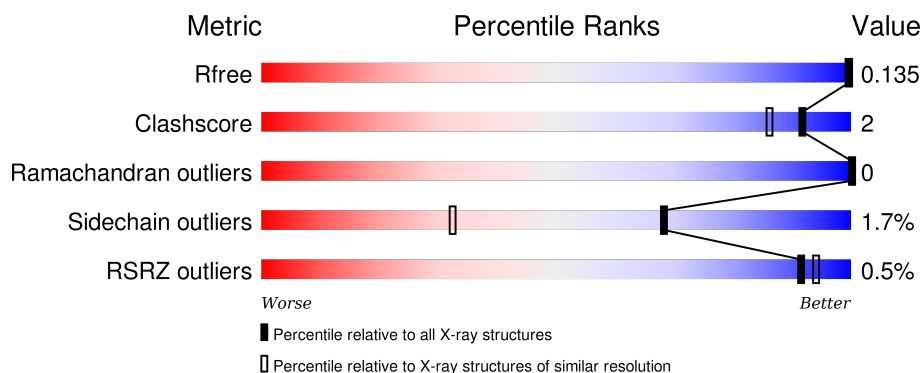
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION



The reported resolution of this entry is 1.47 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}	91344	1278 (1.48-1.44)
Clashscore	102246	1336 (1.48-1.44)
Ramachandran outliers	100387	1320 (1.48-1.44)
Sidechain outliers	100360	1320 (1.48-1.44)
RSRZ outliers	91569	1279 (1.48-1.44)

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. 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	616	 86% 12% ..
2	B	3	 33% 67%

2 Entry composition

There are 7 unique types of molecules in this entry. The entry contains 5542 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 Leukotriene A-4 hydrolase.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	610	Total	C	N	O	S	78	7	0
			4896	3142	815	917	22			

There are 7 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-5	HIS	-	EXPRESSION TAG	UNP P09960
A	-4	HIS	-	EXPRESSION TAG	UNP P09960
A	-3	HIS	-	EXPRESSION TAG	UNP P09960
A	-2	HIS	-	EXPRESSION TAG	UNP P09960
A	-1	HIS	-	EXPRESSION TAG	UNP P09960
A	0	HIS	-	EXPRESSION TAG	UNP P09960
A	296	GLN	GLU	ENGINEERED	UNP P09960

- Molecule 2 is a protein called RSR peptide.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
2	B	3	Total	C	N	O	0	0	0
			29	15	9	5			

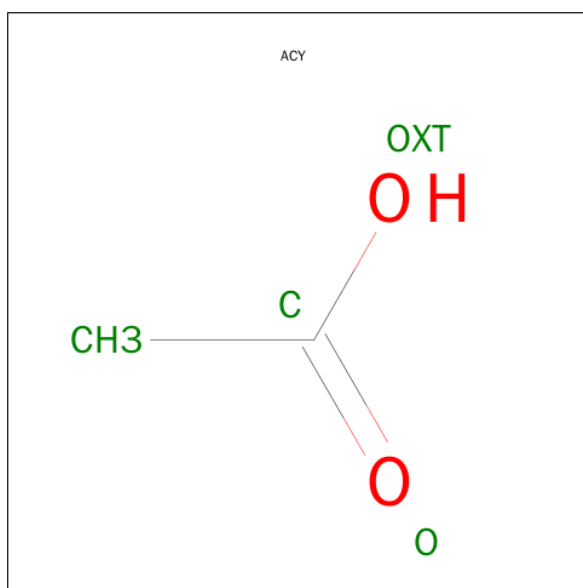
- Molecule 3 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	1	Total	Zn	0	0
			1	1		

- Molecule 4 is YTTERBIUM (III) ION (three-letter code: YB) (formula: Yb).

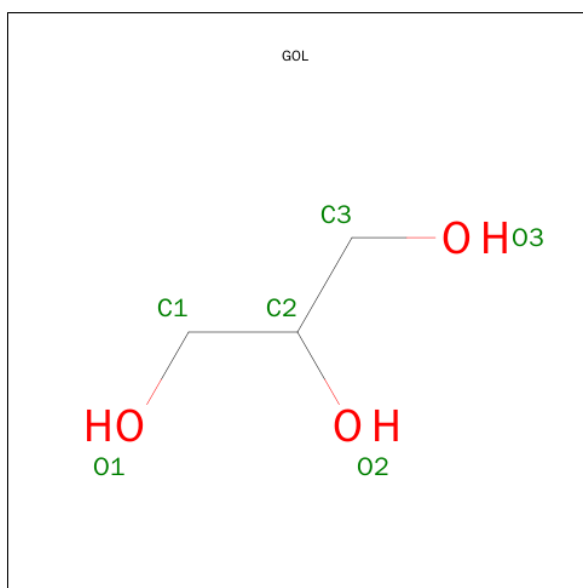
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	1	Total	Yb	0	0
			1	1		

- Molecule 5 is ACETIC ACID (three-letter code: ACY) (formula: $C_2H_4O_2$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
5	A	1	Total	C	O	0	0
			4	2	2		

- Molecule 6 is GLYCEROL (three-letter code: GOL) (formula: $C_3H_8O_3$).



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

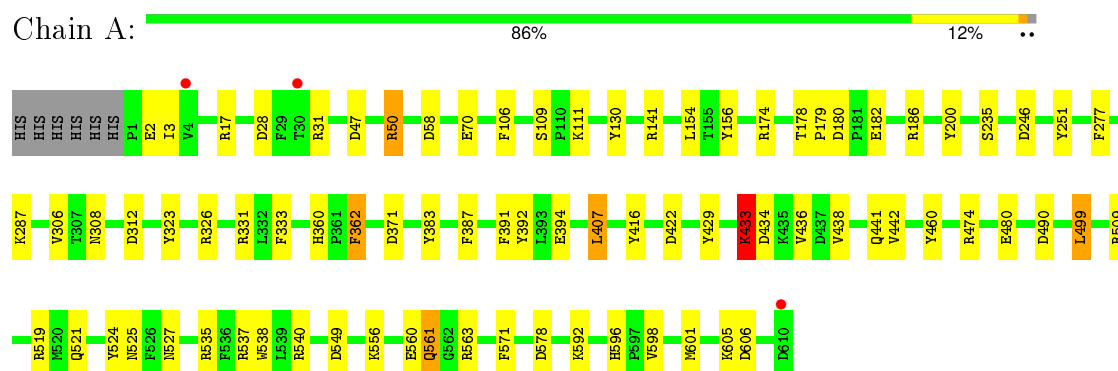
- Molecule 7 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
7	A	597	Total 597	O 597	0	0
7	B	8	Total 8	O 8	0	0

3 Residue-property plots

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors 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: Leukotriene A-4 hydrolase



- Molecule 2: RSR peptide



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	78.51Å 87.35Å 99.77Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	10.00 – 1.47 18.25 – 1.46	Depositor EDS
% Data completeness (in resolution range)	100.0 (10.00-1.47) 98.5 (18.25-1.46)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	0.06	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.89 (at 1.47Å)	Xtriage
Refinement program	SHELXL-97	Depositor
R, R_{free}	0.128 , 0.169 0.137 , 0.135	Depositor DCC
R_{free} test set	3866 reflections (3.44%)	DCC
Wilson B-factor (Å ²)	11.3	Xtriage
Anisotropy	0.393	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.41 , 66.2	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Outliers	0 of 222946 reflections	Xtriage
F_o, F_c correlation	0.97	EDS
Total number of atoms	5542	wwPDB-VP
Average B, all atoms (Å ²)	17.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.14% 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, 0.375 respectively for untwinned datasets, and 0.333, 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: GOL, ZN, YB, ACY

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	0.78	0/5052	1.46	79/6866 (1.2%)
2	B	0.89	0/28	3.38	3/33 (9.1%)
All	All	0.78	0/5080	1.48	82/6899 (1.2%)

There are no bond length outliers.

All (82) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	535	ARG	NE-CZ-NH2	-14.06	113.27	120.30
1	A	174[A]	ARG	NE-CZ-NH2	-13.24	113.68	120.30
1	A	174[B]	ARG	NE-CZ-NH2	-13.24	113.68	120.30
2	B	800	ARG	NE-CZ-NH1	-12.57	114.02	120.30
1	A	474	ARG	NE-CZ-NH1	-12.36	114.12	120.30
1	A	592	LYS	CA-CB-CG	12.21	140.26	113.40
1	A	331	ARG	NE-CZ-NH1	-11.99	114.31	120.30
1	A	174[A]	ARG	NE-CZ-NH1	11.21	125.91	120.30
1	A	174[B]	ARG	NE-CZ-NH1	11.21	125.91	120.30
1	A	31	ARG	NE-CZ-NH2	-9.97	115.32	120.30
1	A	186	ARG	NE-CZ-NH2	-9.94	115.33	120.30
1	A	28	ASP	CB-CG-OD1	8.83	126.25	118.30
2	B	802	ARG	CD-NE-CZ	8.70	135.78	123.60
1	A	509	ARG	NE-CZ-NH1	-8.53	116.03	120.30
1	A	429	TYR	CB-CG-CD1	8.19	125.92	121.00
1	A	28	ASP	CB-CG-OD2	-8.09	111.02	118.30
1	A	474	ARG	NH1-CZ-NH2	8.04	128.25	119.40
1	A	540	ARG	NE-CZ-NH2	-7.71	116.44	120.30
1	A	50	ARG	NE-CZ-NH2	-7.70	116.45	120.30
1	A	331	ARG	NH1-CZ-NH2	7.53	127.69	119.40
1	A	571	PHE	CB-CG-CD2	7.41	125.99	120.80
1	A	549	ASP	CB-CG-OD1	7.34	124.90	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	246	ASP	CB-CG-OD1	7.30	124.87	118.30
1	A	416	TYR	CZ-CE2-CD2	7.11	126.19	119.80
1	A	323	TYR	CG-CD1-CE1	-7.06	115.65	121.30
1	A	422	ASP	CB-CG-OD1	-7.01	111.99	118.30
1	A	200	TYR	CB-CG-CD1	6.97	125.18	121.00
1	A	130	TYR	CA-CB-CG	6.93	126.57	113.40
1	A	130	TYR	CB-CG-CD1	6.72	125.03	121.00
1	A	326	ARG	NE-CZ-NH2	6.66	123.63	120.30
1	A	537	ARG	NE-CZ-NH2	-6.60	117.00	120.30
1	A	371	ASP	CB-CG-OD2	6.59	124.23	118.30
1	A	383	TYR	CB-CG-CD2	-6.38	117.17	121.00
1	A	251	TYR	CZ-CE2-CD2	6.37	125.53	119.80
1	A	535	ARG	NE-CZ-NH1	6.30	123.45	120.30
1	A	180	ASP	CB-CG-OD2	-6.30	112.63	118.30
1	A	524	TYR	CB-CG-CD1	6.26	124.76	121.00
1	A	392	TYR	CZ-CE2-CD2	-6.19	114.23	119.80
1	A	182	GLU	OE1-CD-OE2	-6.19	115.87	123.30
1	A	407	LEU	CA-CB-CG	6.09	129.31	115.30
1	A	392	TYR	CG-CD2-CE2	6.06	126.15	121.30
1	A	323	TYR	CG-CD2-CE2	6.05	126.14	121.30
1	A	323	TYR	CD1-CE1-CZ	6.00	125.20	119.80
1	A	312	ASP	CB-CG-OD2	-5.90	112.99	118.30
1	A	141	ARG	NE-CZ-NH2	-5.90	117.35	120.30
1	A	156	TYR	CA-CB-CG	5.84	124.49	113.40
1	A	383	TYR	CG-CD2-CE2	-5.81	116.66	121.30
1	A	606	ASP	CB-CG-OD1	5.78	123.50	118.30
1	A	141	ARG	NE-CZ-NH1	5.73	123.17	120.30
1	A	490	ASP	CB-CG-OD2	-5.71	113.16	118.30
1	A	31	ARG	NE-CZ-NH1	5.70	123.15	120.30
1	A	578	ASP	CB-CG-OD2	5.68	123.41	118.30
1	A	47	ASP	CB-CG-OD2	5.64	123.38	118.30
1	A	333	PHE	CB-CG-CD1	-5.64	116.85	120.80
1	A	394	GLU	OE1-CD-OE2	-5.58	116.60	123.30
1	A	106	PHE	CB-CG-CD1	-5.56	116.91	120.80
2	B	802	ARG	NE-CZ-NH1	5.56	123.08	120.30
1	A	480	GLU	OE1-CD-OE2	-5.54	116.66	123.30
1	A	519	ARG	NE-CZ-NH2	-5.54	117.53	120.30
1	A	277	PHE	CB-CG-CD2	-5.52	116.94	120.80
1	A	246	ASP	CB-CG-OD2	-5.51	113.34	118.30
1	A	58	ASP	CB-CG-OD1	-5.51	113.34	118.30
1	A	416	TYR	CB-CG-CD1	5.50	124.30	121.00
1	A	499	LEU	CA-CB-CG	5.50	127.95	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	391	PHE	CZ-CE2-CD2	-5.42	113.60	120.10
1	A	474	ARG	NE-CZ-NH2	-5.33	117.63	120.30
1	A	306	VAL	CA-CB-CG1	-5.32	102.92	110.90
1	A	156	TYR	CG-CD1-CE1	5.31	125.55	121.30
1	A	434	ASP	CB-CG-OD1	-5.30	113.53	118.30
1	A	362	PHE	CB-CG-CD2	-5.29	117.10	120.80
1	A	433	LYS	CA-CB-CG	5.21	124.87	113.40
1	A	460	TYR	CG-CD1-CE1	5.19	125.45	121.30
1	A	251	TYR	CG-CD2-CE2	-5.17	117.16	121.30
1	A	70	GLU	OE1-CD-OE2	-5.16	117.11	123.30
1	A	433	LYS	O-C-N	-5.16	114.45	122.70
1	A	251	TYR	CB-CG-CD2	5.13	124.08	121.00
1	A	429	TYR	CG-CD1-CE1	5.08	125.37	121.30
1	A	174[A]	ARG	CG-CD-NE	5.08	122.47	111.80
1	A	174[B]	ARG	CG-CD-NE	5.08	122.47	111.80
1	A	387	PHE	CG-CD2-CE2	5.05	126.36	120.80
1	A	277	PHE	CB-CG-CD1	5.03	124.32	120.80
1	A	391	PHE	CB-CG-CD2	-5.01	117.29	120.80

There are no chirality outliers.

There are no planarity outliers.

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	4896	0	4856	20	0
2	B	29	0	30	0	0
3	A	1	0	0	0	0
4	A	1	0	0	0	0
5	A	4	0	3	0	0
6	A	6	0	8	0	0
7	A	597	0	0	3	0
7	B	8	0	0	0	0
All	All	5542	0	4897	20	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 2.

All (20) 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:360:HIS:HD2	1:A:362:PHE:H	1.21	0.85
1:A:521:GLN:HE22	1:A:527:ASN:H	1.31	0.75
1:A:601:MET:SD	1:A:605:LYS:HE3	2.28	0.73
1:A:527:ASN:HD22	1:A:538:TRP:HE1	1.46	0.63
1:A:360:HIS:CD2	1:A:362:PHE:H	2.11	0.60
1:A:527:ASN:ND2	1:A:538:TRP:HE1	1.99	0.60
1:A:17:ARG:HD2	7:A:1491:HOH:O	2.00	0.60
1:A:438:VAL:O	1:A:441:GLN:HG2	2.03	0.59
1:A:596:HIS:CD2	1:A:598:VAL:H	2.22	0.57
1:A:521:GLN:NE2	1:A:527:ASN:H	2.02	0.54
1:A:441:GLN:HG3	1:A:442:VAL:N	2.20	0.51
1:A:596:HIS:HE1	7:A:1095:HOH:O	1.96	0.48
1:A:561:GLN:NE2	1:A:563:ARG:H	2.10	0.48
1:A:556:LYS:HE2	1:A:560:GLU:OE2	2.14	0.47
1:A:235:SER:HG	1:A:287:LYS:HZ3	1.65	0.45
1:A:596:HIS:HD2	1:A:598:VAL:H	1.65	0.45
1:A:50:ARG:HD2	7:A:1593:HOH:O	2.17	0.44
1:A:178:THR:HG23	1:A:179:PRO:O	2.18	0.43
1:A:109:SER:OG	1:A:111:LYS:HG2	2.19	0.42
1:A:433:LYS:HA	1:A:436:VAL:HG23	2.03	0.41

There are no symmetry-related clashes.

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	615/616 (100%)	603 (98%)	12 (2%)	0	100	100
2	B	1/3 (33%)	1 (100%)	0	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
All	All	616/619 (100%)	604 (98%)	12 (2%)	0	100	100

There are no Ramachandran outliers to report.

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	549/548 (100%)	540 (98%)	9 (2%)	70	35
2	B	3/3 (100%)	3 (100%)	0	100	100
All	All	552/551 (100%)	543 (98%)	9 (2%)	68	35

All (9) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	2	GLU
1	A	3	ILE
1	A	154	LEU
1	A	308	ASN
1	A	407	LEU
1	A	433	LYS
1	A	499	LEU
1	A	525	ASN
1	A	561	GLN

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (14) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	134	GLN
1	A	213	GLN
1	A	341	ASN
1	A	350	GLN
1	A	360	HIS
1	A	466	ASN

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Mol	Chain	Res	Type
1	A	505	GLN
1	A	508	GLN
1	A	521	GLN
1	A	525	ASN
1	A	527	ASN
1	A	561	GLN
1	A	581	HIS
1	A	596	HIS

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 carbohydrates 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	$\# Z > 2$
5	ACY	A	804	4	1,3,3	3.53	1 (100%)	0,3,3	0.00	-
6	GOL	A	805	-	5,5,5	0.87	0	5,5,5	1.17	1 (20%)

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
5	ACY	A	804	4	-	0/0/0/0	0/0/0/0
6	GOL	A	805	-	-	0/4/4/4	0/0/0/0

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	A	804	ACY	CH3-C	3.53	1.53	1.48

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
6	A	805	GOL	C3-C2-C1	-2.20	102.50	111.12

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	607/616 (98%)	-0.25	3 (0%) 91 94	8, 15, 26, 60	17 (2%)
2	B	3/3 (100%)	-0.38	0 100 100	10, 10, 11, 19	0
All	All	610/619 (98%)	-0.25	3 (0%) 91 94	8, 15, 26, 60	17 (2%)

All (3) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	610	ASP	3.7
1	A	4	VAL	2.4
1	A	30	THR	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 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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	LLDF	B-factors(\AA^2)	Q<0.9
6	GOL	A	805	6/6	0.95	0.09	0.49	21,22,27,28	0
5	ACY	A	804	4/4	0.96	0.08	-0.29	14,16,18,19	0
3	ZN	A	701	1/1	1.00	0.03	-4.13	8,8,8,8	0
4	YB	A	803	1/1	1.00	0.04	-	11,11,11,11	0

6.5 Other polymers [i](#)

There are no such residues in this entry.