



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2026 – 08:48 PM UTC

PDB ID : 1DSN / pdb_00001dsn
Title : D60S N-TERMINAL LOBE HUMAN LACTOFERRIN
Authors : Faber, H.R.; Norris, G.E.; Baker, E.N.
Deposited on : 1995-12-13
Resolution : 2.05 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

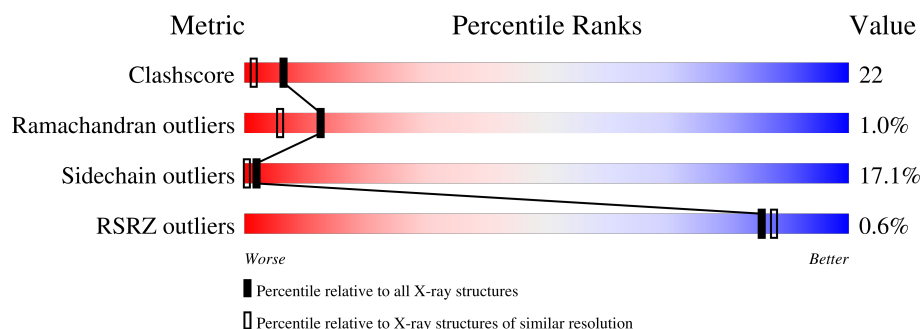
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.05 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))
Clashscore	190562	2333 (2.04-2.04)
Ramachandran outliers	187476	2318 (2.04-2.04)
Sidechain outliers	187428	2318 (2.04-2.04)
RSRZ outliers	180081	2260 (2.04-2.04)

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	333	51% 35% 9% 5%

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 2563 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 LACTOFERRIN.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	315	2451	1544	446	448	13	0	0	0

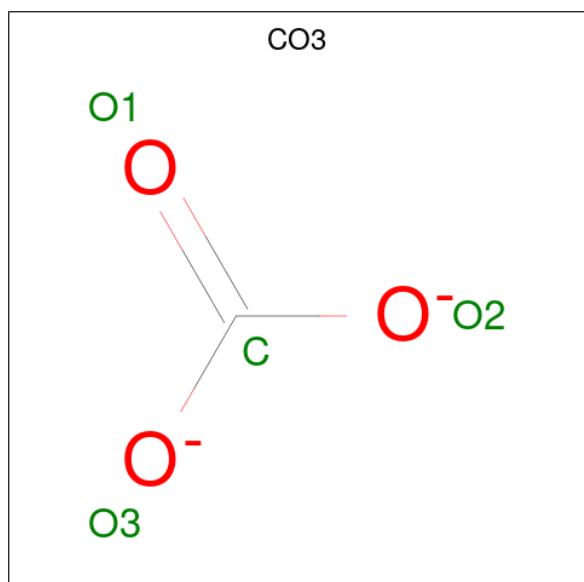
There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	28	ARG	LYS	cloning artifact	UNP P02788
A	60	SER	ASP	engineered mutation	UNP P02788

- Molecule 2 is FE (III) ION (CCD ID: FE) (formula: Fe).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	1	Total Fe 1 1	0	0

- Molecule 3 is CARBONATE ION (CCD ID: CO3) (formula: CO₃).



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

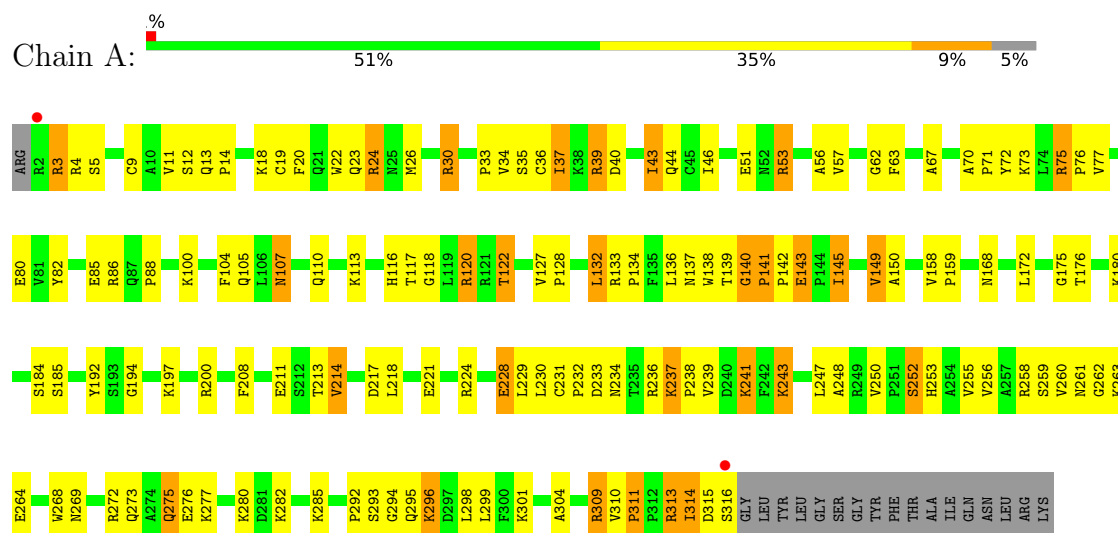
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	107	Total	O	0	0
			107	107		

3 Residue-property plots

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: LACTOFERRIN



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	110.20Å 57.00Å 55.20Å 90.00° 97.60° 90.00°	Depositor
Resolution (Å)	20.00 – 2.05 20.00 – 2.05	Depositor EDS
% Data completeness (in resolution range)	(Not available) (20.00-2.05) 83.0 (20.00-2.05)	Depositor EDS
R_{merge}	0.05	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.62 (at 2.05Å)	Xtriage
Refinement program	TNT	Depositor
R, R_{free}	0.175 , (Not available) 0.166 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å ²)	25.1	Xtriage
Anisotropy	0.432	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 97.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	2563	wwPDB-VP
Average B, all atoms (Å ²)	37.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 9.56% 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: CO3, FE

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	0.95	0/2512	1.09	14/3397 (0.4%)

There are no bond length outliers.

All (14) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	217	ASP	N-CA-C	7.65	121.86	112.23
1	A	304	ALA	N-CA-C	-6.84	101.99	110.41
1	A	239	VAL	N-CA-C	6.69	120.41	111.17
1	A	36	CYS	N-CA-C	6.41	118.85	108.41
1	A	141	PRO	N-CA-C	-6.21	103.12	110.70
1	A	122	THR	N-CA-C	6.20	117.91	111.03
1	A	211	GLU	N-CA-C	6.16	119.90	112.38
1	A	72	TYR	N-CA-C	6.10	117.80	111.03
1	A	252	SER	N-CA-C	5.94	117.72	110.41
1	A	218	LEU	N-CA-C	5.72	117.62	108.41
1	A	56	ALA	N-CA-C	5.67	117.68	109.07
1	A	104	PHE	N-CA-C	5.66	117.60	110.24
1	A	213	THR	N-CA-C	5.39	117.58	111.11
1	A	194	GLY	N-CA-C	-5.15	106.18	112.77

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	2451	0	2390	106	0
2	A	1	0	0	0	0
3	A	4	0	0	0	0
4	A	107	0	0	6	1
All	All	2563	0	2390	106	1

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 22.

All (106) 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:107:ASN:HD22	1:A:107:ASN:H	1.17	0.92
1:A:221:GLU:HG2	1:A:224:ARG:NH2	1.94	0.83
1:A:310:VAL:HG13	1:A:311:PRO:HD2	1.61	0.82
1:A:75:ARG:HG2	1:A:75:ARG:HH11	1.44	0.82
1:A:214:VAL:HG12	4:A:713:HOH:O	1.83	0.78
1:A:100:LYS:HG3	1:A:228:GLU:CD	2.10	0.77
1:A:138:TRP:HE1	1:A:143:GLU:HG3	1.51	0.74
1:A:133:ARG:HB3	1:A:134:PRO:HD3	1.69	0.72
1:A:13:GLN:HB3	1:A:14:PRO:HD3	1.70	0.72
1:A:231:CYS:SG	1:A:237:LYS:HD3	2.32	0.70
1:A:118:GLY:HA2	1:A:159:PRO:HD2	1.75	0.69
1:A:75:ARG:HH11	1:A:75:ARG:CG	2.06	0.68
1:A:120:ARG:HH11	1:A:120:ARG:HG3	1.60	0.67
1:A:107:ASN:HD22	1:A:107:ASN:N	1.83	0.66
1:A:30:ARG:HH11	1:A:30:ARG:HG3	1.60	0.65
1:A:168:ASN:HB2	4:A:795:HOH:O	1.98	0.64
1:A:238:PRO:HD2	1:A:241:LYS:HG3	1.80	0.62
1:A:62:GLY:HA3	1:A:120:ARG:O	1.99	0.62
1:A:75:ARG:HG2	1:A:75:ARG:NH1	2.13	0.61
1:A:221:GLU:HG2	1:A:224:ARG:CZ	2.29	0.61
1:A:30:ARG:HG3	1:A:30:ARG:NH1	2.16	0.61
1:A:105:GLN:HB2	1:A:107:ASN:HD21	1.66	0.60
1:A:43:ILE:HD13	1:A:46:ILE:HB	1.84	0.60
1:A:234:ASN:HA	4:A:705:HOH:O	2.00	0.60
1:A:75:ARG:NH1	1:A:76:PRO:HD3	2.17	0.60
1:A:295:GLN:C	1:A:296:LYS:HG2	2.27	0.59
1:A:80:GLU:OE1	1:A:253:HIS:HB2	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:136:LEU:O	1:A:137:ASN:C	2.45	0.58
1:A:310:VAL:CG1	1:A:311:PRO:HD2	2.33	0.58
1:A:138:TRP:HE1	1:A:143:GLU:CG	2.17	0.58
1:A:110:GLN:HB2	4:A:759:HOH:O	2.02	0.57
1:A:105:GLN:HB2	1:A:107:ASN:ND2	2.20	0.57
1:A:269:ASN:O	1:A:273:GLN:HG3	2.05	0.57
1:A:39:ARG:HG3	1:A:44:GLN:HB3	1.87	0.56
1:A:3:ARG:NH2	1:A:5:SER:OG	2.30	0.56
1:A:214:VAL:CG2	1:A:224:ARG:HG2	2.35	0.56
1:A:268:TRP:CD2	1:A:309:ARG:HG3	2.41	0.55
1:A:116:HIS:CD2	1:A:158:VAL:HG22	2.40	0.55
1:A:133:ARG:CB	1:A:134:PRO:HD3	2.35	0.55
1:A:23:GLN:HG3	1:A:34:VAL:O	2.05	0.55
1:A:100:LYS:HG3	1:A:228:GLU:OE1	2.08	0.54
1:A:264:GLU:H	1:A:264:GLU:CD	2.13	0.53
1:A:260:VAL:O	1:A:261:ASN:HB2	2.08	0.53
1:A:127:VAL:N	1:A:128:PRO:HD2	2.24	0.52
1:A:20:PHE:O	1:A:24:ARG:HD3	2.09	0.52
1:A:51:GLU:HG3	1:A:53:ARG:HG3	1.91	0.52
1:A:258:ARG:HB2	1:A:262:GLY:HA2	1.92	0.52
1:A:145:ILE:O	1:A:149:VAL:HG13	2.09	0.51
1:A:23:GLN:HE21	1:A:35:SER:HA	1.76	0.51
1:A:23:GLN:NE2	1:A:35:SER:HA	2.26	0.50
1:A:272:ARG:HA	1:A:275:GLN:HE21	1.77	0.49
1:A:268:TRP:CE3	1:A:309:ARG:HG3	2.47	0.49
1:A:139:THR:O	1:A:140:GLY:O	2.30	0.49
1:A:231:CYS:HB3	1:A:232:PRO:HD2	1.94	0.49
1:A:314:ILE:HD12	4:A:780:HOH:O	2.13	0.49
1:A:262:GLY:O	1:A:263:LYS:HB2	2.13	0.48
1:A:120:ARG:HG3	1:A:120:ARG:NH1	2.27	0.48
1:A:120:ARG:HH11	1:A:120:ARG:CG	2.26	0.48
1:A:18:LYS:HD3	1:A:299:LEU:HD12	1.97	0.47
1:A:105:GLN:HE22	1:A:236:ARG:HG3	1.78	0.47
1:A:82:TYR:CE2	1:A:252:SER:CB	2.98	0.47
1:A:138:TRP:NE1	1:A:143:GLU:CG	2.78	0.47
1:A:141:PRO:HA	1:A:142:PRO:C	2.39	0.47
1:A:13:GLN:OE1	1:A:13:GLN:HA	2.15	0.46
1:A:107:ASN:H	1:A:107:ASN:ND2	1.92	0.46
1:A:292:PRO:HD2	1:A:295:GLN:HB2	1.96	0.46
1:A:37:ILE:HG22	1:A:37:ILE:O	2.15	0.46
1:A:175:GLY:HA3	1:A:180:LYS:HA	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:9:CYS:O	1:A:57:VAL:HG23	2.15	0.46
1:A:82:TYR:CE2	1:A:252:SER:HB3	2.50	0.46
1:A:117:THR:HG22	1:A:192:TYR:HA	1.97	0.45
1:A:122:THR:CG2	1:A:250:VAL:HG11	2.46	0.45
1:A:229:LEU:O	1:A:236:ARG:HA	2.16	0.45
1:A:243:LYS:HB2	1:A:243:LYS:HE2	1.43	0.45
1:A:233:ASP:O	1:A:234:ASN:HB2	2.15	0.45
1:A:247:LEU:O	1:A:248:ALA:HB2	2.17	0.45
1:A:75:ARG:HD3	1:A:313:ARG:HD2	1.99	0.44
1:A:75:ARG:NH1	1:A:76:PRO:CD	2.79	0.44
1:A:145:ILE:O	1:A:145:ILE:HD12	2.18	0.44
1:A:70:ALA:HB1	1:A:71:PRO:HA	1.99	0.44
1:A:75:ARG:HH11	1:A:75:ARG:HA	1.83	0.44
1:A:113:LYS:HB3	1:A:172:LEU:HD11	2.00	0.44
1:A:143:GLU:HG3	1:A:143:GLU:O	2.13	0.44
1:A:230:LEU:HD23	1:A:236:ARG:HG2	2.00	0.44
1:A:138:TRP:NE1	1:A:143:GLU:HG3	2.27	0.43
1:A:243:LYS:HB2	4:A:716:HOH:O	2.18	0.43
1:A:76:PRO:HA	1:A:255:VAL:O	2.18	0.43
1:A:136:LEU:O	1:A:137:ASN:O	2.36	0.43
1:A:19:CYS:O	1:A:22:TRP:HB3	2.18	0.43
1:A:63:PHE:N	1:A:63:PHE:CD1	2.86	0.43
1:A:133:ARG:N	1:A:134:PRO:CD	2.81	0.43
1:A:76:PRO:HA	1:A:256:VAL:HA	2.01	0.43
1:A:5:SER:HB3	1:A:33:PRO:HG2	2.01	0.42
1:A:128:PRO:HB3	1:A:208:PHE:CD1	2.54	0.42
1:A:43:ILE:HD13	1:A:43:ILE:HA	1.72	0.42
1:A:132:LEU:O	1:A:136:LEU:HG	2.19	0.42
1:A:40:ASP:HB2	1:A:44:GLN:OE1	2.19	0.42
1:A:150:ALA:O	1:A:168:ASN:ND2	2.44	0.42
1:A:43:ILE:HD12	1:A:43:ILE:O	2.20	0.42
1:A:11:VAL:O	1:A:12:SER:OG	2.29	0.41
1:A:14:PRO:HG2	1:A:185:SER:OG	2.21	0.41
1:A:294:GLY:C	1:A:295:GLN:HG2	2.44	0.41
1:A:37:ILE:HD13	1:A:37:ILE:HA	1.52	0.41
1:A:46:ILE:HD13	1:A:67:ALA:HB2	2.02	0.41
1:A:282:LYS:HA	1:A:282:LYS:HD3	1.49	0.41
1:A:133:ARG:HB3	1:A:134:PRO:CD	2.41	0.40

All (1) 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:A:804:HOH:O	4:A:804:HOH:O[2_656]	2.17	0.03

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	313/333 (94%)	292 (93%)	18 (6%)	3 (1%)	12 6

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	140	GLY
1	A	311	PRO
1	A	88	PRO

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	258/275 (94%)	214 (83%)	44 (17%)	2 0

All (44) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	3	ARG
1	A	4	ARG
1	A	24	ARG

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Mol	Chain	Res	Type
1	A	26	MET
1	A	30	ARG
1	A	37	ILE
1	A	39	ARG
1	A	43	ILE
1	A	53	ARG
1	A	73	LYS
1	A	75	ARG
1	A	77	VAL
1	A	85	GLU
1	A	86	ARG
1	A	107	ASN
1	A	120	ARG
1	A	132	LEU
1	A	143	GLU
1	A	145	ILE
1	A	149	VAL
1	A	176	THR
1	A	184	SER
1	A	197	LYS
1	A	200	ARG
1	A	214	VAL
1	A	228	GLU
1	A	237	LYS
1	A	241	LYS
1	A	243	LYS
1	A	259	SER
1	A	275	GLN
1	A	276	GLU
1	A	277	LYS
1	A	280	LYS
1	A	285	LYS
1	A	293	SER
1	A	296	LYS
1	A	298	LEU
1	A	301	LYS
1	A	309	ARG
1	A	313	ARG
1	A	314	ILE
1	A	315	ASP
1	A	316	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (6) such

sidechains are listed below:

Mol	Chain	Res	Type
1	A	105	GLN
1	A	107	ASN
1	A	234	ASN
1	A	261	ASN
1	A	275	GLN
1	A	287	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 2 ligands modelled in this entry, 1 is monoatomic - leaving 1 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	CO3	A	401	2	3,3,3	0.51	0	2,3,3	2.50	1 (50%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
3	A	401	CO3	O3-C-O1	-3.54	110.63	119.68

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	315/333 (94%)	-0.44	2 (0%) 85 87	13, 32, 64, 80	0

All (2) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	2	ARG	2.7
1	A	316	SER	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(Å ²)	Q<0.9
3	CO3	A	401	4/4	0.97	0.08	18,26,34,53	0
2	FE	A	400	1/1	0.99	0.03	25,25,25,25	0

6.5 Other polymers [i](#)

There are no such residues in this entry.