



Full wwPDB X-ray Structure Validation Report ⓘ

May 21, 2020 – 01:21 am BST

PDB ID : 1KLJ
Title : Crystal structure of uninhibited factor VIIa
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Deposited on : 2001-12-12
Resolution : 2.44 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 following versions of software and data (see [references ⓘ](#)) 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 : 2.11
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) : 2.11

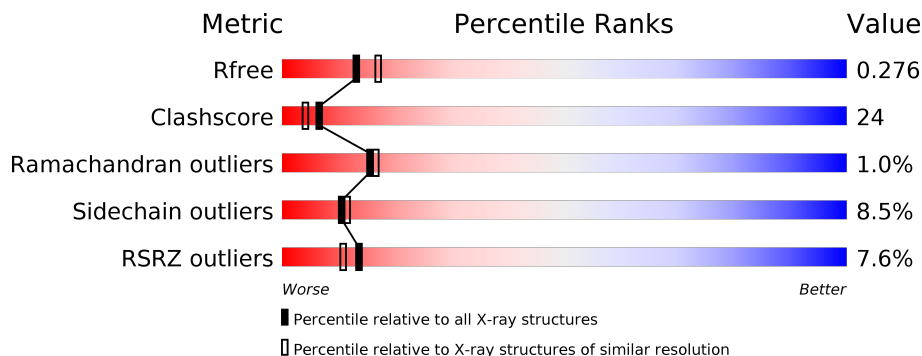
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.44 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}	130704	1564 (2.46-2.42)
Clashscore	141614	1631 (2.46-2.42)
Ramachandran outliers	138981	1617 (2.46-2.42)
Sidechain outliers	138945	1617 (2.46-2.42)
RSRZ outliers	127900	1547 (2.46-2.42)

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 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	L	69	
2	H	254	

2 Entry composition [i](#)

There are 5 unique types of molecules in this entry. The entry contains 2437 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 factor VIIa.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	L	56	423	257	75	84	7	10	0	0

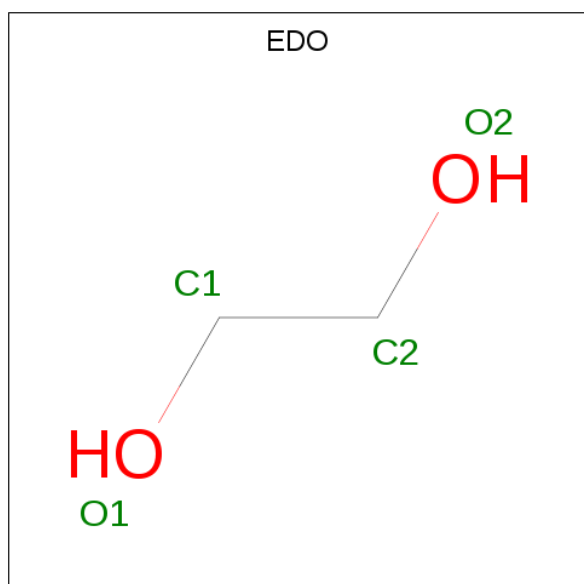
- Molecule 2 is a protein called factor VIIa.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	H	248	1933	1228	344	348	13	16	0	0

- Molecule 3 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	H	1	Total	Ca	0	0
			1	1		

- Molecule 4 is 1,2-ETHANEDIOL (three-letter code: EDO) (formula: C₂H₆O₂).



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

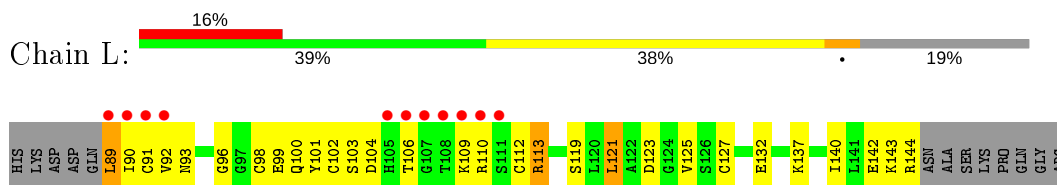
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	L	19	Total	O	0	0
			19	19		
5	H	57	Total	O	0	0
			57	57		

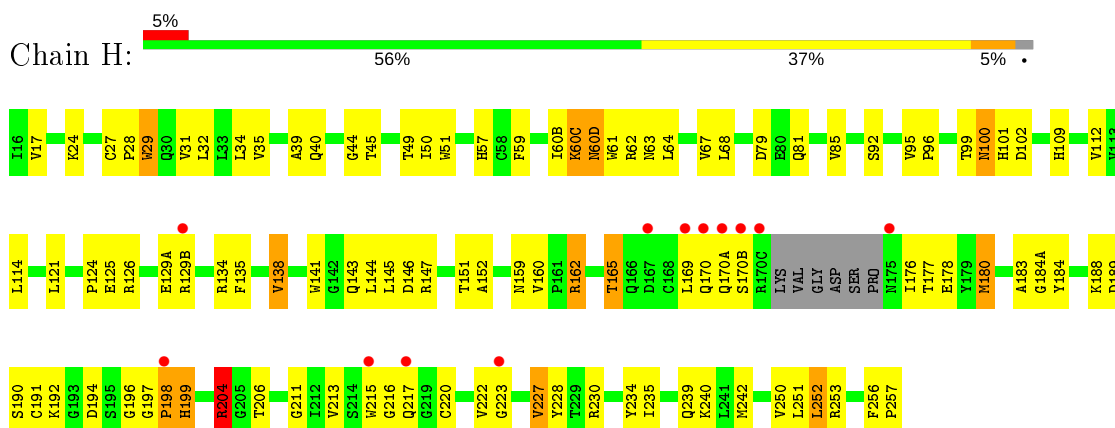
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA 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: factor VIIa



- Molecule 2: factor VIIa



4 Data and refinement statistics

Property	Value	Source
Space group	P 41 21 2	Depositor
Cell constants a, b, c, α , β , γ	94.44Å 94.44Å 114.31Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	20.00 – 2.44 39.62 – 2.46	Depositor EDS
% Data completeness (in resolution range)	(Not available) (20.00-2.44) 97.4 (39.62-2.46)	Depositor EDS
R_{merge}	0.11	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.18 (at 2.45Å)	Xtrriage
Refinement program	CNS	Depositor
R, R_{free}	0.231 , 0.286 0.227 , 0.276	Depositor DCC
R_{free} test set	1853 reflections (9.83%)	wwPDB-VP
Wilson B-factor (Å ²)	42.7	Xtrriage
Anisotropy	0.274	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.35 , 52.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.30$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	2437	wwPDB-VP
Average B, all atoms (Å ²)	44.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.48% 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: CA, EDO

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	L	0.96	0/430	1.06	2/580 (0.3%)
2	H	0.95	1/1981 (0.1%)	0.98	4/2695 (0.1%)
All	All	0.95	1/2411 (0.0%)	0.99	6/3275 (0.2%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	H	204	ARG	CG-CD	5.37	1.65	1.51

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	H	199	HIS	N-CA-C	-5.93	94.98	111.00
1	L	123	ASP	CB-CG-OD1	-5.80	113.08	118.30
1	L	113	ARG	NE-CZ-NH2	-5.69	117.45	120.30
2	H	162	ARG	NE-CZ-NH1	-5.47	117.57	120.30
2	H	220	CYS	CA-CB-SG	-5.06	104.89	114.00
2	H	252	LEU	CB-CG-CD2	-5.06	102.40	111.00

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	L	423	0	400	25	0
2	H	1933	0	1908	89	1
3	H	1	0	0	0	0
4	H	4	0	6	0	0
5	H	57	0	0	2	0
5	L	19	0	0	1	1
All	All	2437	0	2314	109	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 24.

All (109) 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:L:98:CYS:SG	1:L:102:CYS:HB3	1.96	1.05
2:H:45:THR:OG1	2:H:198:PRO:HB3	1.68	0.94
2:H:134:ARG:HH11	2:H:134:ARG:HG2	1.43	0.84
1:L:99:GLU:HG3	2:H:204:ARG:HD2	1.59	0.83
2:H:59:PHE:HA	2:H:60(B):ILE:HG12	1.63	0.80
2:H:49:THR:HG22	2:H:114:LEU:HD21	1.65	0.78
1:L:92:VAL:HG13	2:H:129(B):ARG:HH11	1.52	0.74
1:L:91:CYS:HB2	1:L:96:GLY:HA3	1.72	0.72
1:L:90:ILE:HA	1:L:104:ASP:CB	2.20	0.72
2:H:51:TRP:CE2	2:H:242:MET:HG2	2.25	0.71
2:H:17:VAL:O	2:H:188:LYS:HA	1.92	0.69
2:H:35:VAL:HG11	2:H:60(C):LYS:HD3	1.74	0.69
2:H:134:ARG:NH1	2:H:134:ARG:HG2	2.10	0.66
1:L:90:ILE:CG2	1:L:92:VAL:HG23	2.26	0.65
2:H:68:LEU:HG	2:H:112:VAL:HG11	1.79	0.65
2:H:61:TRP:CH2	2:H:251:LEU:HD22	2.32	0.64
2:H:188:LYS:O	2:H:189:ASP:HB2	1.96	0.64
2:H:176:ILE:HG22	2:H:176:ILE:O	1.98	0.64
2:H:170:GLN:C	2:H:170(B):SER:H	2.02	0.63
2:H:235:ILE:O	2:H:239:GLN:HG3	2.00	0.62
2:H:184:TYR:CD1	2:H:188:LYS:HB2	2.35	0.62
1:L:98:CYS:SG	1:L:102:CYS:CB	2.81	0.62
2:H:199:HIS:HB3	2:H:211:GLY:CA	2.30	0.61
2:H:143:GLN:HG3	2:H:192:LYS:O	2.00	0.61
1:L:90:ILE:HG23	1:L:104:ASP:OD1	2.01	0.60
1:L:132:GLU:OE1	5:L:869:HOH:O	2.16	0.60
2:H:256:PHE:HA	2:H:257:PRO:C	2.22	0.59
2:H:147:ARG:HH11	2:H:147:ARG:HG2	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:64:LEU:HB3	2:H:85:VAL:HB	1.85	0.57
2:H:176:ILE:HA	2:H:180:MET:SD	2.44	0.57
2:H:143:GLN:HE21	2:H:192:LYS:HB2	1.70	0.57
2:H:184:TYR:CD1	2:H:188:LYS:HE2	2.40	0.56
2:H:162:ARG:HH21	2:H:230:ARG:HH11	1.54	0.56
2:H:165:THR:O	2:H:169:LEU:HG	2.06	0.55
2:H:160:VAL:HB	2:H:184(A):GLY:HA2	1.87	0.55
2:H:126:ARG:O	2:H:129(A):GLU:HG3	2.06	0.55
2:H:147:ARG:NH1	2:H:147:ARG:HG2	2.22	0.55
2:H:170:GLN:O	2:H:170(B):SER:N	2.40	0.54
1:L:92:VAL:HG13	2:H:129(B):ARG:NH1	2.22	0.53
1:L:112:CYS:SG	1:L:125:VAL:HG12	2.48	0.53
2:H:197:GLY:O	2:H:213:VAL:HG23	2.09	0.53
2:H:191:CYS:O	2:H:194:ASP:HB2	2.08	0.53
2:H:60(D):ASN:OD1	2:H:63:ASN:HB2	2.09	0.52
2:H:101:HIS:ND1	2:H:234:TYR:OH	2.41	0.51
1:L:142:GLU:C	1:L:144:ARG:H	2.15	0.50
2:H:162:ARG:HH21	2:H:230:ARG:NH1	2.10	0.49
2:H:29:TRP:CE2	2:H:121:LEU:HD13	2.48	0.49
2:H:31:VAL:HG12	2:H:32:LEU:N	2.28	0.49
2:H:135:PHE:HB3	2:H:159:ASN:HD21	1.77	0.49
2:H:162:ARG:NH2	2:H:230:ARG:HH11	2.11	0.49
2:H:61:TRP:HB3	2:H:250:VAL:HG11	1.95	0.48
2:H:184:TYR:HD1	2:H:188:LYS:HB2	1.77	0.48
2:H:256:PHE:CD1	2:H:257:PRO:HA	2.49	0.48
2:H:144:LEU:O	2:H:145:LEU:HG	2.14	0.48
2:H:50:ILE:HG13	2:H:51:TRP:CD1	2.49	0.47
1:L:90:ILE:HA	1:L:104:ASP:HB3	1.96	0.47
2:H:57:HIS:ND1	2:H:102:ASP:OD2	2.46	0.47
2:H:141:TRP:O	2:H:151:THR:HB	2.15	0.47
2:H:49:THR:HG22	2:H:114:LEU:CD2	2.38	0.47
2:H:95:VAL:O	2:H:96:PRO:C	2.53	0.47
2:H:27:CYS:N	2:H:28:PRO:CD	2.78	0.47
1:L:89:LEU:O	1:L:90:ILE:C	2.53	0.47
2:H:147:ARG:NH2	5:H:849:HOH:O	2.48	0.47
2:H:184:TYR:CE1	2:H:188:LYS:HE2	2.50	0.47
2:H:204:ARG:NH1	5:H:810:HOH:O	2.31	0.47
2:H:51:TRP:NE1	2:H:242:MET:HG2	2.30	0.46
2:H:24:LYS:NZ	2:H:79:ASP:OD1	2.27	0.46
2:H:143:GLN:HE22	2:H:192:LYS:HE2	1.81	0.46
2:H:215:TRP:CE3	2:H:216:GLY:N	2.83	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:51:TRP:CD2	2:H:242:MET:HG2	2.51	0.45
1:L:93:ASN:ND2	1:L:93:ASN:N	2.65	0.45
1:L:100:GLN:HG3	1:L:127:CYS:SG	2.57	0.45
2:H:146:ASP:OD1	2:H:147:ARG:HG3	2.17	0.45
2:H:34:LEU:HA	2:H:39:ALA:O	2.17	0.45
2:H:67:VAL:HA	2:H:81:GLN:O	2.17	0.44
2:H:134:ARG:NH1	2:H:135:PHE:CE2	2.85	0.44
2:H:170:GLN:C	2:H:170(B):SER:N	2.70	0.44
1:L:113:ARG:NH2	2:H:125:GLU:OE2	2.50	0.44
1:L:90:ILE:HA	1:L:104:ASP:HB2	1.96	0.43
2:H:183:ALA:HB3	2:H:228:TYR:CE1	2.53	0.43
2:H:178:GLU:H	2:H:178:GLU:HG2	1.52	0.43
2:H:44:GLY:HA2	2:H:196:GLY:O	2.18	0.43
2:H:59:PHE:HB3	2:H:61:TRP:CH2	2.54	0.43
2:H:31:VAL:HG22	2:H:68:LEU:HD11	2.01	0.43
1:L:112:CYS:C	1:L:113:ARG:HG3	2.39	0.43
2:H:189:ASP:CG	2:H:190:SER:H	2.22	0.43
1:L:93:ASN:HD22	1:L:93:ASN:N	2.16	0.43
2:H:59:PHE:HA	2:H:60(B):ILE:CG1	2.43	0.42
2:H:189:ASP:CG	2:H:190:SER:N	2.72	0.42
2:H:92:SER:O	2:H:253:ARG:NH2	2.51	0.42
2:H:100:ASN:ND2	2:H:177:THR:OG1	2.53	0.42
1:L:121:LEU:HD12	1:L:121:LEU:HA	1.74	0.42
2:H:134:ARG:NH1	2:H:134:ARG:CG	2.77	0.42
2:H:34:LEU:HD23	2:H:40:GLN:HA	2.01	0.42
1:L:101:TYR:O	1:L:113:ARG:N	2.35	0.42
2:H:144:LEU:HD21	2:H:152:ALA:HB2	2.01	0.41
2:H:199:HIS:HB3	2:H:211:GLY:C	2.40	0.41
1:L:137:LYS:NZ	2:H:206:THR:OG1	2.53	0.41
2:H:251:LEU:HD12	2:H:252:LEU:N	2.35	0.41
2:H:256:PHE:HA	2:H:257:PRO:OXT	2.19	0.41
1:L:142:GLU:C	1:L:144:ARG:N	2.74	0.41
2:H:138:VAL:HA	2:H:198:PRO:O	2.20	0.41
1:L:90:ILE:HG22	1:L:92:VAL:HG23	2.01	0.41
2:H:45:THR:HG1	2:H:198:PRO:HB3	1.82	0.41
2:H:222:VAL:HG12	2:H:223:GLY:N	2.36	0.41
2:H:68:LEU:HD22	2:H:68:LEU:N	2.36	0.41
2:H:31:VAL:CG1	2:H:32:LEU:N	2.84	0.40
2:H:192:LYS:HE3	2:H:192:LYS:HB2	1.96	0.40
2:H:215:TRP:CE2	2:H:227:VAL:HG21	2.56	0.40

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the sym-

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

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:109:HIS:NE2	5:L:869:HOH:O[7_555]	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	L	54/69 (78%)	47 (87%)	6 (11%)	1 (2%)	8	6
2	H	244/254 (96%)	225 (92%)	17 (7%)	2 (1%)	19	22
All	All	298/323 (92%)	272 (91%)	23 (8%)	3 (1%)	15	16

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	H	60(C)	LYS
2	H	170(A)	GLN
1	L	106	THR

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	L	49/60 (82%)	41 (84%)	8 (16%)	2	1
2	H	211/216 (98%)	197 (93%)	14 (7%)	16	20
All	All	260/276 (94%)	238 (92%)	22 (8%)	10	11

All (22) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	L	89	LEU
1	L	103	SER
1	L	109	LYS
1	L	110	ARG
1	L	119	SER
1	L	121	LEU
1	L	140	ILE
1	L	143	LYS
2	H	29	TRP
2	H	60(D)	ASN
2	H	62	ARG
2	H	99	THR
2	H	100	ASN
2	H	124	PRO
2	H	138	VAL
2	H	165	THR
2	H	180	MET
2	H	198	PRO
2	H	204	ARG
2	H	217	GLN
2	H	227	VAL
2	H	240	LYS

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (5) such sidechains are listed below:

Mol	Chain	Res	Type
1	L	93	ASN
2	H	100	ASN
2	H	143	GLN
2	H	159	ASN
2	H	202	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 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
4	EDO	H	701	-	3,3,3	0.89	0	2,2,2	0.37	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	EDO	H	701	-	-	0/1/1/1	-

There are no bond length outliers.

There are no bond angle outliers.

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

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

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	L	56/69 (81%)	0.97	11 (19%) 1 0	30, 44, 80, 80	2 (3%)
2	H	248/254 (97%)	0.20	12 (4%) 30 28	25, 40, 68, 87	4 (1%)
All	All	304/323 (94%)	0.34	23 (7%) 13 11	25, 41, 73, 87	6 (1%)

All (23) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	L	90	ILE	7.4
1	L	108	THR	6.9
2	H	170(B)	SER	6.1
1	L	89	LEU	5.8
2	H	215	TRP	5.6
2	H	170	GLN	5.4
1	L	106	THR	5.3
2	H	170(C)	ARG	5.0
1	L	107	GLY	4.8
2	H	169	LEU	4.7
1	L	109	LYS	4.6
1	L	91	CYS	4.2
1	L	92	VAL	3.7
1	L	105	HIS	3.3
2	H	129(B)	ARG	3.1
2	H	175	ASN	3.0
2	H	223	GLY	2.9
2	H	170(A)	GLN	2.4
1	L	110	ARG	2.3
2	H	167	ASP	2.2
1	L	111	SER	2.1
2	H	198	PRO	2.0
2	H	217	GLN	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. 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(\AA^2)	Q<0.9
4	EDO	H	701	4/4	0.91	0.29	59,59,59,60	0
3	CA	H	900	1/1	0.98	0.07	45,45,45,45	0

6.5 Other polymers [i](#)

There are no such residues in this entry.