WORLDWIDE wwPDB PROTEIN DATA BANK

Full wwPDB X-ray Structure Validation Report ⓘ

Jun 12, 2024 – 11:54 PM EDT

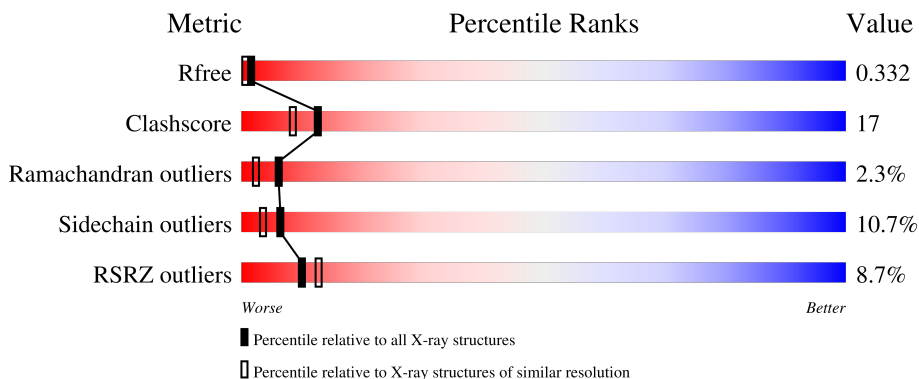|		
PDB ID	:	1DQD
Title	:	CRYSTAL STRUCTURE OF FAB HGR-2 F6, A COMPETITIVE ANTAGONIST OF THE GLUCAGON RECEPTOR
Authors	:	Wright, L.M.; Brzozowski, A.M.; Hubbard, R.E.; Pike, A.C.W.; Roberts, S.M.; Skovgaard, R.N.; Svendsen, I.; Vissing, H.; Bywater, R.P.
Deposited on	:	2000-01-04
Resolution	:	2.10 Å(reported)

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1   Overall quality at a glance ⓘ

The following experimental techniques were used to determine the structure:
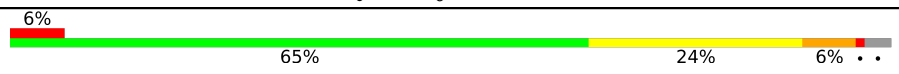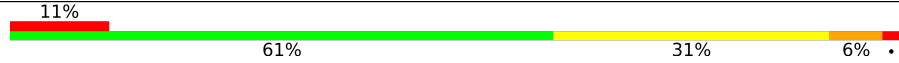*X-RAY DIFFRACTION*

The reported resolution of this entry is 2.10 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	Percentile Ranks	Value
Rfree		0.332
Clashscore		17
Ramachandran outliers		2.3%
Sidechain outliers		10.7%
RSRZ outliers		8.7%

Worse   *Better*

▮ Percentile relative to all X-ray structures

▯ Percentile relative to X-ray structures of similar resolution

Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	5197 (2.10-2.10)
Clashscore	141614	5710 (2.10-2.10)
Ramachandran outliers	138981	5647 (2.10-2.10)
Sidechain outliers	138945	5648 (2.10-2.10)
RSRZ outliers	127900	5083 (2.10-2.10)

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	L	221	6% / 65% 24% 6% ··
2	H	222	11% / 61% 31% 6% ·

2 Entry composition ⓘ

There are 3 unique types of molecules in this entry. The entry contains 3699 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 FAB HGR-2 F6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	L	214	1643	1015	278	339	11	4	6	0

- Molecule 2 is a protein called FAB HGR-2 F6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	H	221	1676	1063	267	339	7	0	1	0

- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	O		
3	L	204	204	204	0	0
3	H	176	176	176	0	0

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: FAB HGR-2 F6

Chain L:
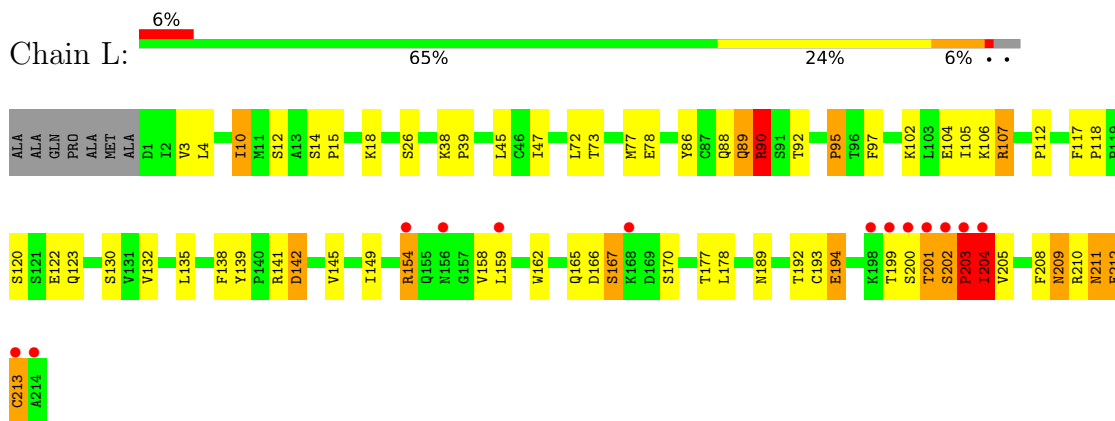
• Molecule 2: FAB HGR-2 F6

Chain H:
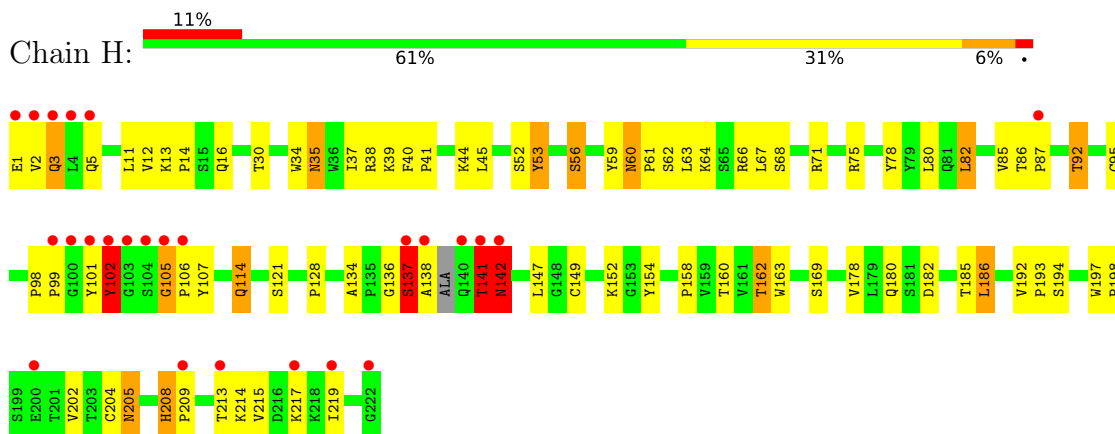
4 Data and refinement statistics ⓘ

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, α, β, γ	76.14Å 133.74Å 37.46Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	20.00 – 2.10 66.87 – 2.11	Depositor EDS
% Data completeness (in resolution range)	98.1 (20.00-2.10) 97.6 (66.87-2.11)	Depositor EDS
R_{merge}	0.05	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	2.61 (at 2.10Å)	Xtriage
Refinement program	REFMAC	Depositor
R, R_{free}	0.217 , 0.315 0.234 , 0.332	Depositor DCC
R_{free} test set	2336 reflections (10.16%)	wwPDB-VP
Wilson B-factor (Å^2)	32.6	Xtriage
Anisotropy	0.294	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.24 , 45.8	EDS
L-test for twinning[2]	$< |L| > = 0.49, < L^2 > = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.93	EDS
Total number of atoms	3699	wwPDB-VP
Average B, all atoms (Å^2)	43.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.20% of the height of the origin peak. No significant pseudotranslation is detected.*

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[1]Intensities estimated from amplitudes.

[2]Theoretical values of $< |L| >$, $< L^2 >$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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	1.78	3/1711 (0.2%)	1.40	16/2326 (0.7%)
2	H	0.48	0/1730	1.39	19/2372 (0.8%)
All	All	1.30	3/3441 (0.1%)	1.40	35/4698 (0.7%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
2	H	0	2

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	194	GLU	CD-OE1	-51.65	0.68	1.25
1	L	194	GLU	CD-OE2	36.84	1.66	1.25
1	L	12	SER	CA-CB	-32.24	1.04	1.52

All (35) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	H	141	THR	C-N-CA	19.20	169.69	121.70
1	L	194	GLU	CG-CD-OE2	-15.45	87.40	118.30
1	L	12	SER	N-CA-CB	-14.22	89.17	110.50
1	L	90	ARG	CD-NE-CZ	12.26	140.76	123.60
2	H	66	ARG	NE-CZ-NH2	12.23	126.42	120.30
1	L	194	GLU	OE1-CD-OE2	9.66	134.90	123.30
2	H	141	THR	CA-C-O	8.92	138.83	120.10
2	H	66	ARG	NE-CZ-NH1	-8.23	116.19	120.30
2	H	141	THR	O-C-N	-8.17	109.62	122.70
2	H	208	HIS	CA-C-O	-7.93	103.44	120.10
1	L	194	GLU	CG-CD-OE1	7.84	133.98	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	L	107	ARG	NE-CZ-NH2	-7.59	116.50	120.30
2	H	142	ASN	N-CA-CB	7.57	124.23	110.60
2	H	71	ARG	NE-CZ-NH2	7.41	124.00	120.30
1	L	142	ASP	CB-CG-OD1	7.22	124.80	118.30
2	H	71	ARG	CD-NE-CZ	6.94	133.31	123.60
2	H	209	PRO	N-CA-CB	6.64	111.27	103.30
1	L	203	PRO	N-CA-C	6.53	129.07	112.10
1	L	154	ARG	NE-CZ-NH1	6.49	123.55	120.30
2	H	209	PRO	CA-N-CD	-6.13	102.91	111.50
1	L	107	ARG	CD-NE-CZ	6.08	132.11	123.60
2	H	53	TYR	CB-CG-CD1	-6.07	117.36	121.00
2	H	38	ARG	NE-CZ-NH2	5.94	123.27	120.30
1	L	12	SER	CB-CA-C	5.75	121.03	110.10
2	H	182	ASP	CB-CG-OD1	5.74	123.46	118.30
2	H	71	ARG	NE-CZ-NH1	-5.71	117.44	120.30
1	L	203	PRO	CA-N-CD	-5.63	103.62	111.50
1	L	203	PRO	C-N-CA	5.53	135.51	121.70
2	H	92	THR	N-CA-CB	5.50	120.75	110.30
2	H	186	LEU	CA-CB-CG	5.23	127.33	115.30
2	H	141	THR	N-CA-C	5.23	125.12	111.00
1	L	117	PHE	CB-CG-CD1	5.11	124.38	120.80
1	L	166	ASP	CB-CG-OD1	-5.09	113.72	118.30
1	L	90	ARG	NE-CZ-NH1	5.05	122.82	120.30
2	H	102	TYR	N-CA-C	5.00	124.51	111.00

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	H	208	HIS	Peptide,Mainchain

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	L	1643	0	1579	56	1
2	H	1676	0	1618	59	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	H	176	0	0	6	0
3	L	204	0	0	3	0
All	All	3699	0	3197	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 17.

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:105:ILE:H	1:L:165:GLN:HE22	1.05	0.96
1:L:132:VAL:HG22	1:L:177[A]:THR:HG22	1.47	0.95
2:H:162:THR:HG23	2:H:205:ASN:HB2	1.48	0.94
1:L:38:LYS:HG2	1:L:39:PRO:HD2	1.51	0.90
1:L:141[A]:ARG:NH1	1:L:162:TRP:CD1	2.40	0.89
1:L:209:ASN:HD22	1:L:211:ASN:H	1.18	0.89
2:H:101:TYR:O	2:H:102:TYR:HB2	1.78	0.83
2:H:60:ASN:HD22	2:H:62:SER:H	1.32	0.78
2:H:86:THR:HB	2:H:87:PRO:HD2	1.65	0.77
1:L:89:GLN:HE22	1:L:92:THR:H	1.31	0.75
1:L:154:ARG:HD3	1:L:178:LEU:HD11	1.68	0.74
2:H:114:GLN:NE2	2:H:114:GLN:H	1.86	0.73
2:H:114:GLN:H	2:H:114:GLN:HE21	1.34	0.73
1:L:202:SER:N	1:L:203:PRO:HD2	2.08	0.69
1:L:209:ASN:ND2	1:L:211:ASN:H	1.91	0.66
1:L:105:ILE:N	1:L:165:GLN:HE22	1.88	0.66
2:H:60:ASN:ND2	2:H:62:SER:H	1.94	0.65
1:L:118:PRO:HB3	1:L:208:PHE:CE2	2.33	0.64
2:H:128:PRO:HB3	2:H:154:TYR:HB3	1.79	0.63
1:L:211:ASN:HD22	1:L:212:GLU:N	1.97	0.62
1:L:105:ILE:H	1:L:165:GLN:NE2	1.88	0.62
1:L:189:ASN:HB3	1:L:209:ASN:ND2	2.17	0.60
1:L:194:GLU:HG3	1:L:205:VAL:HG22	1.84	0.60
1:L:3:VAL:H	1:L:26:SER:CB	2.15	0.59
1:L:189:ASN:HB3	1:L:209:ASN:HD21	1.68	0.58
2:H:180:GLN:HB3	3:H:244:HOH:O	2.02	0.57
2:H:147:LEU:HD12	2:H:202:VAL:HG21	1.86	0.57
1:L:3:VAL:H	1:L:26:SER:HB2	1.70	0.57
1:L:192:THR:HG23	1:L:205:VAL:HG13	1.87	0.57
1:L:77:MET:HE3	1:L:78:GLU:O	2.05	0.56
1:L:123:GLN:HE22	1:L:130:SER:H	1.53	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:159:LEU:HD11	2:H:178:VAL:HB	1.87	0.56
1:L:211:ASN:HD22	1:L:211:ASN:C	2.09	0.56
2:H:40:PHE:HB3	2:H:41:PRO:HD2	1.88	0.55
2:H:14:PRO:HA	2:H:85:VAL:O	2.07	0.55
1:L:86:TYR:OH	2:H:39:LYS:NZ	2.41	0.54
1:L:106:LYS:HA	1:L:139:TYR:OH	2.08	0.54
1:L:159:LEU:HB3	1:L:177[A]:THR:OG1	2.08	0.52
2:H:114:GLN:HE21	2:H:114:GLN:N	2.06	0.52
1:L:102:LYS:NZ	1:L:141[B]:ARG:HH12	2.08	0.52
2:H:2:VAL:CG1	2:H:3:GLN:N	2.74	0.51
1:L:149:ILE:HD11	1:L:154:ARG:HD2	1.92	0.51
2:H:192:VAL:HB	2:H:193:PRO:HD2	1.92	0.51
2:H:2:VAL:HG12	2:H:3:GLN:N	2.26	0.51
2:H:197:TRP:CG	2:H:198:PRO:HA	2.46	0.51
1:L:123:GLN:NE2	1:L:130:SER:H	2.08	0.51
2:H:35:ASN:C	2:H:35:ASN:HD22	2.15	0.50
1:L:120:SER:HB2	1:L:122:GLU:OE1	2.12	0.50
2:H:134:ALA:HB2	2:H:219:ILE:HG22	1.93	0.50
1:L:201:THR:O	1:L:202:SER:CB	2.61	0.49
2:H:106:PRO:HG2	2:H:107:TYR:CE1	2.47	0.49
2:H:141:THR:HG23	2:H:142:ASN:N	2.28	0.49
2:H:197:TRP:CD1	2:H:202:VAL:HG22	2.49	0.48
2:H:163:TRP:CH2	2:H:204:CYS:HB3	2.49	0.48
1:L:204:ILE:H	1:L:204:ILE:HD13	1.77	0.48
2:H:149:CYS:SG	2:H:219:ILE:HD11	2.53	0.48
1:L:135:LEU:HD21	1:L:145[A]:VAL:HG22	1.95	0.48
1:L:14:SER:HB3	1:L:15:PRO:HD2	1.95	0.48
2:H:40:PHE:CD1	2:H:44:LYS:HE2	2.49	0.48
2:H:178:VAL:HG23	3:H:258:HOH:O	2.13	0.48
2:H:34:TRP:HB3	2:H:78:TYR:CZ	2.49	0.47
2:H:82:LEU:HD13	2:H:85:VAL:HG12	1.96	0.47
1:L:72:LEU:HD23	1:L:73:THR:N	2.29	0.47
1:L:189:ASN:O	1:L:209:ASN:HA	2.15	0.47
2:H:136:GLY:O	2:H:137:SER:HB2	2.14	0.47
1:L:72:LEU:HD23	1:L:72:LEU:C	2.34	0.47
1:L:201:THR:O	1:L:202:SER:HB2	2.15	0.47
2:H:30:THR:O	2:H:53:TYR:HB2	2.15	0.47
2:H:213:THR:HG22	2:H:215:VAL:HG23	1.97	0.47
2:H:60:ASN:HB3	2:H:63:LEU:HD23	1.97	0.47
2:H:80:LEU:HD23	2:H:80:LEU:C	2.36	0.47
1:L:149:ILE:CD1	1:L:154:ARG:HD2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:45:LEU:HD13	2:H:99:PRO:HG3	1.97	0.46
2:H:3:GLN:HB3	3:H:385:HOH:O	2.15	0.46
2:H:41:PRO:HB3	3:H:379:HOH:O	2.14	0.46
2:H:192:VAL:HB	2:H:193:PRO:CD	2.46	0.46
1:L:177[A]:THR:HG23	3:L:261:HOH:O	2.16	0.46
1:L:102:LYS:HZ1	1:L:141[B]:ARG:HH12	1.64	0.46
1:L:102:LYS:NZ	1:L:141[B]:ARG:NH1	2.64	0.45
1:L:90:ARG:HG2	1:L:95:PRO:HB3	1.98	0.45
2:H:16:GLN:O	2:H:85:VAL:HG22	2.17	0.45
1:L:167:SER:HB3	3:L:329:HOH:O	2.17	0.44
2:H:60:ASN:ND2	2:H:61:PRO:HD2	2.32	0.44
2:H:141:THR:HG23	2:H:142:ASN:HA	1.98	0.44
1:L:107:ARG:HD2	1:L:170:SER:HB2	2.00	0.44
2:H:138:ALA:HB2	3:H:383:HOH:O	2.16	0.44
2:H:62:SER:OG	2:H:63:LEU:HD22	2.18	0.44
1:L:88:GLN:HG2	1:L:89:GLN:N	2.32	0.44
1:L:97:PHE:CZ	2:H:37:ILE:HD13	2.53	0.44
1:L:122:GLU:OE2	2:H:217:LYS:HE3	2.18	0.44
1:L:158:VAL:HG22	1:L:178:LEU:HD13	2.00	0.43
1:L:159:LEU:HD23	1:L:159:LEU:O	2.18	0.43
2:H:13:LYS:H	2:H:16:GLN:NE2	2.16	0.43
2:H:11:LEU:HD22	2:H:12:VAL:N	2.33	0.43
2:H:152:LYS:HB2	2:H:185:THR:HG23	2.01	0.42
1:L:10:ILE:HD13	1:L:10:ILE:O	2.20	0.42
2:H:60:ASN:HD22	2:H:61:PRO:N	2.18	0.42
2:H:101:TYR:O	2:H:102:TYR:CB	2.57	0.42
1:L:142:ASP:HB2	3:L:301:HOH:O	2.19	0.41
2:H:34:TRP:HB3	2:H:78:TYR:CE2	2.55	0.41
1:L:97:PHE:HZ	2:H:37:ILE:HD13	1.85	0.41
2:H:98:PRO:HG3	3:H:290:HOH:O	2.21	0.41
2:H:59:TYR:CZ	2:H:68:SER:HA	2.56	0.41
2:H:105:GLY:HA2	2:H:106:PRO:HD3	1.81	0.41
1:L:112:PRO:HA	1:L:138:PHE:HB3	2.02	0.40
2:H:78:TYR:OH	2:H:95:CYS:HB2	2.21	0.40
2:H:141:THR:CG2	2:H:142:ASN:N	2.84	0.40
1:L:47:ILE:HD12	1:L:72:LEU:HD12	2.04	0.40
2:H:52:SER:OG	2:H:56:SER:N	2.54	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)
1:L:90:ARG:O	1:L:210:ARG:NH2[3_545]	1.87	0.33

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	L	218/221 (99%)	205 (94%)	8 (4%)	5 (2%)	6	2
2	H	218/222 (98%)	197 (90%)	15 (7%)	6 (3%)	5	1
All	All	436/443 (98%)	402 (92%)	23 (5%)	11 (2%)	6	2

All (11) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	L	202	SER
1	L	203	PRO
1	L	204	ILE
2	H	102	TYR
2	H	75	ARG
2	H	105	GLY
2	H	137	SER
1	L	213[A]	CYS
1	L	213[B]	CYS
2	H	142	ASN
2	H	64	LYS

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	L	194/191 (102%)	175 (90%)	19 (10%)	8	5
2	H	196/195 (100%)	173 (88%)	23 (12%)	5	3
All	All	390/386 (101%)	348 (89%)	42 (11%)	6	3

All (42) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	L	4	LEU
1	L	10	ILE
1	L	18	LYS
1	L	89	GLN
1	L	90	ARG
1	L	95	PRO
1	L	104	GLU
1	L	167	SER
1	L	193	CYS
1	L	199	THR
1	L	200	SER
1	L	201	THR
1	L	203	PRO
1	L	204	ILE
1	L	209	ASN
1	L	211	ASN
1	L	212	GLU
1	L	213[A]	CYS
1	L	213[B]	CYS
2	H	1	GLU
2	H	3	GLN
2	H	5	GLN
2	H	35	ASN
2	H	45	LEU
2	H	56	SER
2	H	60	ASN
2	H	67	LEU
2	H	82	LEU
2	H	92	THR
2	H	114	GLN
2	H	121	SER
2	H	137	SER
2	H	141	THR
2	H	142	ASN
2	H	158	PRO

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Mol	Chain	Res	Type
2	H	160	THR
2	H	162	THR
2	H	169	SER
2	H	186	LEU
2	H	194	SER
2	H	205	ASN
2	H	214	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (13) such sidechains are listed below:

Mol	Chain	Res	Type
1	L	6	GLN
1	L	88	GLN
1	L	89	GLN
1	L	123	GLN
1	L	160	ASN
1	L	165	GLN
1	L	209	ASN
1	L	211	ASN
2	H	3	GLN
2	H	16	GLN
2	H	35	ASN
2	H	60	ASN
2	H	114	GLN

5.3.3 RNA ⓘ

There are no RNA molecules in this entry.

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

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates ⓘ

There are no monosaccharides in this entry.

5.6 Ligand geometry ⓘ

There are no ligands in this entry.

5.7 Other polymers ⓘ

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(Å²)	Q<0.9
1	L	214/221 (96%)	0.28	13 (6%)	21	26	23, 37, 63, 95	8 (3%)
2	H	221/222 (99%)	0.72	25 (11%)	5	6	24, 43, 83, 99	11 (4%)
All	All	435/443 (98%)	0.50	38 (8%)	10	13	23, 40, 82, 99	19 (4%)

All (38) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	H	138	ALA	10.8
2	H	102	TYR	10.7
2	H	104	SER	10.3
2	H	2	VAL	6.0
2	H	105	GLY	5.4
2	H	1	GLU	5.4
2	H	103	GLY	5.3
1	L	213[A]	CYS	4.6
2	H	3	GLN	4.6
2	H	222	GLY	4.4
1	L	199	THR	4.3
1	L	204	ILE	4.0
1	L	202	SER	3.7
2	H	141	THR	3.5
1	L	201	THR	3.5
2	H	100	GLY	3.2
1	L	198	LYS	3.2
2	H	219	ILE	3.2
2	H	106	PRO	3.2
1	L	156	ASN	3.0
2	H	209	PRO	3.0
2	H	142	ASN	2.8
2	H	137	SER	2.8
1	L	203	PRO	2.7

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Mol	Chain	Res	Type	RSRZ
1	L	214	ALA	2.7
2	H	4	LEU	2.7
2	H	101	TYR	2.6
2	H	99	PRO	2.4
1	L	200	SER	2.4
2	H	140	GLN	2.3
1	L	154	ARG	2.3
2	H	5	GLN	2.2
2	H	213	THR	2.2
1	L	168	LYS	2.2
2	H	217	LYS	2.2
1	L	159	LEU	2.1
2	H	200	GLU	2.1
2	H	87	PRO	2.0

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

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates ⓘ

There are no monosaccharides in this entry.

6.4 Ligands ⓘ

There are no ligands in this entry.

6.5 Other polymers ⓘ

There are no such residues in this entry.