

Full wwPDB X-ray Structure Validation Report (i)

Jun 22, 2024 – 08:19 PM EDT

PDB ID : 5II0

Title : Crystal structure of the human calcitonin receptor ectodomain in complex with

a truncated salmon calcitonin analogue

Authors: Johansson, E.; Reedtz-Runge, S.

Deposited on : 2016-03-01

Resolution : 2.10 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:

Mol Probity : 4.02b-467

Mogul: 1.8.5 (274361), CSD as541be (2020)

Xtriage (Phenix) : 1.13 EDS : 2.37.1

Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)

 $Refmac \quad : \quad 5.8.0158$

CCP4 : 7.0.044 (Gargrove)

Ideal geometry (proteins) : Engh & Huber (2001) Ideal geometry (DNA, RNA) : Parkinson et al. (1996)

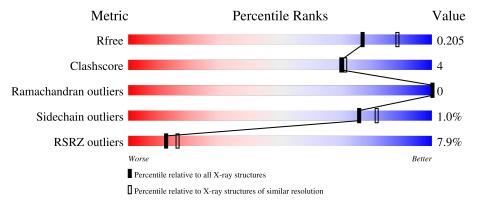
Validation Pipeline (wwPDB-VP) : 2.37.1

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 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	$\begin{array}{c} \text{Whole archive} \\ (\#\text{Entries}) \end{array}$	$\begin{array}{c} {\rm Similar\ resolution} \\ (\#{\rm Entries,\ resolution\ range(\mathring{\rm A})}) \end{array}$
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	A	122	.%		75%	6		6%	19%
1	В	122	5%		78	3%		6%	• 16%
1	С	122	11%		67%			15%	18%
2	D	25	4%	40%		8%		52%	
2	Е	25	4%	32%			64%	,	



Mol	Chain	Length		Quality of chain				
			12%					
2	F	25		36%	12%	52%		

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
2	4BF	F	22	-	-	-	X



2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 3088 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 Calcitonin receptor.

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf	Trace		
1	A	99	Total	С	N	О	S	0	2	0
1	Λ	99	842	541	135	155	11	U		
1	D	103	Total	С	N	О	S	0	2	0
1	Ъ	105	874	563	141	159	11	0		0
1	С	100	Total	С	N	О	S	0	0	0
1		100	842	542	136	154	10	U	0	0

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	23	GLY	-	expression tag	UNP P30988
A	24	SER	-	expression tag	UNP P30988
В	23	GLY	-	expression tag	UNP P30988
В	24	SER	_	expression tag	UNP P30988
С	23	GLY	-	expression tag	UNP P30988
С	24	SER	-	expression tag	UNP P30988

• Molecule 2 is a protein called Calcitonin.

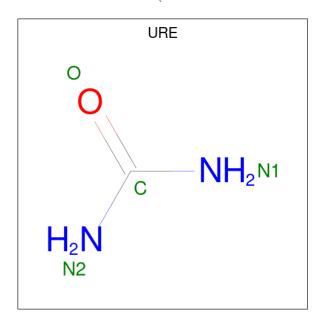
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf	Trace
2	D	12	Total Br C N O 88 1 52 17 18	0	0	0
2	E	9	Total C N O 62 34 14 14	0	0	0
2	F	12	Total Br C N O 88 1 52 17 18	0	0	0

• Molecule 3 is SODIUM ION (three-letter code: NA) (formula: Na).

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



 \bullet Molecule 4 is UREA (three-letter code: URE) (formula: CH_4N_2O).



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

• Molecule 5 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
5	A	101	Total O 101 101	0	0
5	В	93	Total O 93 93	0	0
5	С	59	Total O 59 59	0	0
5	D	15	Total O 15 15	0	0
5	E	8	Total O 8 8	0	0
5	F	11	Total O 11 11	0	0



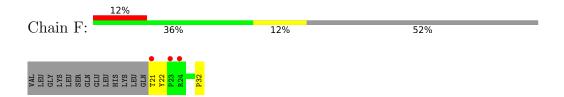
• Molecule 2: Calcitonin

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: Calcitonin receptor Chain A: 19% • Molecule 1: Calcitonin receptor Chain B: • Molecule 1: Calcitonin receptor Chain C: 67% 15% 18% • Molecule 2: Calcitonin Chain D: 40% 52% VAL LEU GLY LLYS LEU SER GLN GLU LEU HIS LYS LYS • Molecule 2: Calcitonin Chain E: 32% 64%







4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants	96.56Å 113.17Å 55.42Å	Donositon
a, b, c, α , β , γ	90.00° 114.79° 90.00°	Depositor
Resolution (Å)	24.84 - 2.10	Depositor
Resolution (A)	24.94 - 2.10	EDS
% Data completeness	96.6 (24.84-2.10)	Depositor
(in resolution range)	96.6 (24.94-2.10)	EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	3.03 (at 2.10Å)	Xtriage
Refinement program	PHENIX dev_1938	Depositor
D D.	0.170 , 0.205	Depositor
R, R_{free}	0.170 , 0.205	DCC
R_{free} test set	1936 reflections (6.34%)	wwPDB-VP
Wilson B-factor (Å ²)	29.6	Xtriage
Anisotropy	0.382	Xtriage
Bulk solvent $k_{sol}(e/Å^3)$, $B_{sol}(Å^2)$	0.37, 46.6	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	0.96	EDS
Total number of atoms	3088	wwPDB-VP
Average B, all atoms (Å ²)	39.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 6.16% of the height of the origin peak. No significant pseudotranslation is detected.

²Theoretical 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.



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: LPD, NA, URE, 4BF

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		
IVIOI	Cilaiii	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	A	0.41	0/879	0.57	0/1194	
1	В	0.43	0/913	0.57	0/1241	
1	С	0.35	0/874	0.55	0/1188	
2	D	0.42	0/67	0.52	0/88	
2	Е	0.40	0/53	0.51	0/70	
2	F	0.35	0/67	0.52	0/88	
All	All	0.40	0/2853	0.56	0/3869	

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	A	842	0	763	4	0
1	В	874	0	800	6	1
1	С	842	0	757	10	0
2	D	88	0	80	0	0
2	Е	62	0	59	0	0
2	F	88	0	81	0	0
3	A	1	0	0	0	0



Continued	trom	mmoninonic	maaa
COHABABACA		DIEUIUU	DUIUE
0 0 1000100000			

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	F	4	0	4	0	0
5	A	101	0	0	0	1
5	В	93	0	0	3	1
5	С	59	0	0	1	0
5	D	15	0	0	0	0
5	Е	8	0	0	0	0
5	F	11	0	0	0	0
All	All	3088	0	2544	19	2

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 4.

All (19) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	$\begin{array}{c} \text{Interatomic} \\ \text{distance } (\text{\AA}) \end{array}$	Clash overlap (Å)
1:C:64:ALA:O	1:C:66:GLN:NE2	2.14	0.81
1:C:87:ALA:HB1	1:C:114:GLU:HA	1.69	0.73
1:B:60:GLN:NE2	5:B:203:HOH:O	2.31	0.63
1:A:64:ALA:O	1:A:66:GLN:NE2	2.34	0.60
1:C:107:LYS:NZ	5:C:202:HOH:O	2.33	0.57
1:B:60:GLN:NE2	5:B:205:HOH:O	2.41	0.52
1:B:114:GLU:H	1:B:114:GLU:CD	2.14	0.51
1:C:86:PRO:HG2	1:C:89:VAL:HG21	1.94	0.48
1:B:107:LYS:NZ	5:B:208:HOH:O	2.47	0.48
1:A:101:ASP:O	1:A:138:THR:HG21	2.15	0.46
1:C:101:ASP:HB2	1:C:138:THR:HG21	1.97	0.46
1:A:121:HIS:CE1	1:A:123[A]:GLU:HB2	2.53	0.44
1:B:62:LEU:HA	1:B:63:PRO:HD3	1.86	0.43
1:C:68:GLU:HA	1:C:69:GLY:HA2	1.82	0.42
1:C:57:ASP:O	1:C:61:GLN:HG3	2.20	0.42
1:C:63:PRO:O	1:C:74:ARG:NH2	2.43	0.42
1:B:39:PHE:HB3	1:C:92:TYR:CE2	2.55	0.41
1:A:54:LYS:HE2	1:A:54:LYS:HB3	1.85	0.41
1:C:39:PHE:HD1	1:C:40:LEU:HG	1.87	0.40

All (2) 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	$\begin{array}{c} {\rm Interatomic} \\ {\rm distance} \ ({\rm \AA}) \end{array}$	Clash overlap (Å)
5:A:324:HOH:O	5:A:354:HOH:O[2_655]	2.14	0.06



Atom-1	Atom-2	$\begin{array}{c} {\rm Interatomic} \\ {\rm distance} \ ({\rm \AA}) \end{array}$	$egin{aligned} \operatorname{Clash} \ \operatorname{overlap}\ (\mbox{\normalfont\AA}) \end{aligned}$
1:B:71:TYR:O	5:B:201:HOH:O[2_656]	2.16	0.04

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	A	99/122 (81%)	98 (99%)	1 (1%)	0	100	100
1	В	103/122 (84%)	102 (99%)	1 (1%)	0	100	100
1	C	98/122 (80%)	95 (97%)	3 (3%)	0	100	100
2	D	9/25 (36%)	9 (100%)	0	0	100	100
2	E	7/25~(28%)	7 (100%)	0	0	100	100
2	F	9/25 (36%)	9 (100%)	0	0	100	100
All	All	325/441 (74%)	320 (98%)	5 (2%)	0	100	100

There are no Ramachandran outliers to report.

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	91/110 (83%)	91 (100%)	0	100	100	
1	В	95/110 (86%)	93 (98%)	2 (2%)	53	59	
1	С	90/110 (82%)	90 (100%)	0	100	100	



Mol	Chain	Analysed	Rotameric	Outliers	Perce	ntiles
2	D	8/20 (40%)	8 (100%)	0	100	100
2	E	6/20 (30%)	6 (100%)	0	100	100
2	F	8/20 (40%)	7 (88%)	1 (12%)	4	2
All	All	298/390 (76%)	295 (99%)	3 (1%)	76	82

All (3) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	В	62	LEU
1	В	66	GLN
2	F	21	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	С	66	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)

5 non-standard protein/DNA/RNA residues 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).

Mol Type		Chain Dag	Res	Res Link	Bond lengths		Bond angles			
MIOI	Type	$ ext{Type} \mid ext{Chain} \mid ext{F}$	nes	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
2	LPD	F	32	2	8,8,8	1.82	1 (12%)	10,10,10	1.12	1 (10%)
2	LPD	Е	32	2	8,8,8	1.67	1 (12%)	10,10,10	1.08	1 (10%)
2	4BF	D	22	2	11,12,13	1.08	0	12,15,17	1.47	2 (16%)
2	4BF	F	22	2	11,12,13	1.13	1 (9%)	12,15,17	0.71	0



	Mol	Type	pe Chain	Res	Link	Bond lengths			Bond angles		
		туре		nes	LIIIK	Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
	2	LPD	D	32	2	8,8,8	1.63	1 (12%)	10,10,10	1.13	2 (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
2	LPD	F	32	2	-	2/4/11/11	0/1/1/1
2	LPD	Е	32	2	-	1/4/11/11	0/1/1/1
2	4BF	D	22	2	-	0/5/6/8	0/1/1/1
2	4BF	F	22	2	-	0/5/6/8	0/1/1/1
2	LPD	D	32	2	-	2/4/11/11	0/1/1/1

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(A)	$Ideal(\AA)$
2	F	32	LPD	C-N2	4.41	1.44	1.32
2	Е	32	LPD	C-N2	4.20	1.43	1.32
2	D	32	LPD	C-N2	4.14	1.43	1.32
2	F	22	4BF	BR-CZ	2.27	1.94	1.90

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\mathbf{Observed}(^o)$	$\operatorname{Ideal}({}^{o})$
2	D	22	4BF	CB-CA-C	-3.79	104.37	111.47
2	F	32	LPD	CA-C-N2	2.63	121.19	116.69
2	Е	32	LPD	CA-C-N2	2.31	120.64	116.69
2	D	32	LPD	O-C-N2	-2.29	119.02	123.00
2	D	32	LPD	CA-C-N2	2.28	120.59	116.69
2	D	22	4BF	CD2-CG-CD1	2.15	121.55	118.17

There are no chirality outliers.

All (5) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	D	32	LPD	N2-C-CA-N
2	Е	32	LPD	N2-C-CA-N
2	F	32	LPD	N2-C-CA-N
2	D	32	LPD	O-C-CA-N
2	F	32	LPD	O-C-CA-N



There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates (i)

There are no monosaccharides 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).

ſ	Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
		Туре		ries		Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
	4	URE	F	101	-	3,3,3	2.98	2 (66%)	3,3,3	0.89	0

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\text{\AA})$	$\operatorname{Ideal}(\text{\AA})$
4	F	101	URE	C-N2	3.79	1.44	1.34
4	F	101	URE	C-N1	3.39	1.43	1.34

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 (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 $>$	$\# \mathrm{RSRZ}{>}2$	$OWAB(Å^2)$	Q < 0.9
1	A	99/122 (81%)	-0.16	1 (1%) 82 85	23, 30, 51, 63	0
1	В	103/122 (84%)	0.08	6 (5%) 23 28	22, 33, 61, 116	0
1	С	100/122 (81%)	0.58	14 (14%) 2 3	27, 42, 84, 116	0
2	D	10/25 (40%)	-0.16	1 (10%) 7 9	26, 33, 51, 78	0
2	E	8/25 (32%)	-0.10	1 (12%) 3 5	27, 36, 41, 80	0
2	F	10/25~(40%)	1.05	3 (30%) 0 0	30, 43, 67, 104	0
All	All	330/441 (74%)	0.18	26 (7%) 12 16	22, 34, 72, 116	0

All (26) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	F	21	THR	7.9
1	В	34	ILE	7.4
1	С	68	GLU	6.8
1	С	39	PHE	5.8
1	С	66	GLN	5.1
1	В	35	GLU	4.4
1	С	65	TYR	3.5
1	С	63	PRO	3.3
1	С	115	LYS	3.2
1	В	126	ARG	3.1
1	В	36	PRO	3.0
1	A	68	GLU	2.7
1	С	60	GLN	2.6
1	С	64	ALA	2.6
1	С	138	THR	2.5
1	В	61	GLN	2.5
1	С	61	GLN	2.5
2	D	21	THR	2.4
1	С	62	LEU	2.4



Mol	Chain	Res	Type	RSRZ
2	F	24	ARG	2.3
1	В	38	PRO	2.3
1	С	124	ASN	2.2
2	Е	24	ARG	2.2
1	С	114	GLU	2.1
2	F	23	PRO	2.1
1	С	71	TYR	2.1

6.2 Non-standard residues in protein, DNA, RNA chains (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	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q < 0.9
2	4BF	F	22	12/13	0.75	0.48	83,116,124,128	0
2	4BF	D	22	12/13	0.86	0.17	47,72,93,113	0
2	LPD	Е	32	8/8	0.97	0.08	23,23,25,26	0
2	LPD	D	32	8/8	0.98	0.11	22,22,24,27	0
2	LPD	F	32	8/8	0.98	0.10	29,32,33,34	0

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	$\mathbf{B} ext{-}\mathbf{factors}(\mathbf{\mathring{A}}^2)$	Q < 0.9
3	NA	A	201	1/1	0.93	0.41	53,53,53,53	1
4	URE	F	101	4/4	0.96	0.12	27,33,35,35	0

6.5 Other polymers (i)

There are no such residues in this entry.

