



# Full wwPDB X-ray Structure Validation Report ⓘ

Oct 8, 2024 – 04:07 PM EDT

PDB ID : 8FPO  
Title : PCSK9 in complex with an inhibitor  
Authors : Xu, M.; Chopra, R.  
Deposited on : 2023-01-05  
Resolution : 3.00 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](mailto: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 : 4.02b-467  
Mogul : 2022.3.0, CSD as543be (2022)  
Xtrriage (Phenix) : 1.20.1  
EDS : 3.0  
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)  
CCP4 : 9.0.003 (Gargrove)  
Density-Fitness : 1.0.11  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.39

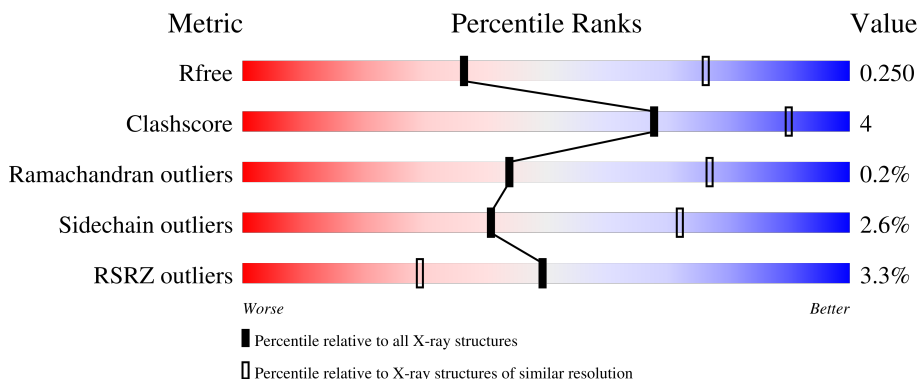
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 3.00 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))
$R_{free}$	164625	2511 (3.00-3.00)
Clashscore	180529	2866 (3.00-3.00)
Ramachandran outliers	177936	2778 (3.00-3.00)
Sidechain outliers	177891	2781 (3.00-3.00)
RSRZ outliers	164620	2523 (3.00-3.00)

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  $\geq 3$ , 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	152	
2	B	540	
3	C	9	

## 2 Entry composition

There are 4 unique types of molecules in this entry. The entry contains 4353 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 Proprotein convertase subtilisin/kexin type 9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	92	740	474	133	131	2	0	0	0

- Molecule 2 is a protein called Proprotein convertase subtilisin/kexin type 9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	B	477	3537	2185	651	670	31	0	0	0

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	474	ILE	VAL	variant	UNP Q8NBP7
B	670	GLU	GLY	variant	UNP Q8NBP7

- Molecule 3 is a protein called MCR-ALA-7T2-GLY-004-7T2-SER-7T2-0NC inhibitor.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
			Total	C	Cl	N	O				S
3	C	9	75	52	3	9	10	1	0	0	0

- Molecule 4 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	B	1	Total	Ca	0	0
			1	1		

### 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: Proprotein convertase subtilisin/kexin type 9

Chain A:  59% 39%

MET  
GLY  
THR  
VAL  
SER  
SER  
ARG  
ARG  
SER  
TRP  
TRP  
PRO  
LEU  
PRO  
LEU  
LEU  
LEU  
LEU  
LEU  
LEU  
GLY  
PRO  
ALA  
GLY  
ALA  
ALA  
ALA  
GLN  
GLU  
ASP  
GLU  
ASP  
GLY  
ASP  
TYR  
GLU  
GLU  
VAL  
LEU  
LEU  
ALA  
LEU  
ARG  
SER  
GLU  
GLU  
GLU  
ASP  
GLY  
LEU  
ALA  
ALA  
PRO  
GLU  
GLU  
HIS  
GLY  
THR

T81  
R96  
Q101  
L133  
Q152

- Molecule 2: Proprotein convertase subtilisin/kexin type 9

Chain B:  4% 78% 10% 12%

S153  
P163  
Y166  
R167  
ALA  
ASP  
GLU  
TYR  
GLN  
PRO  
PRO  
ASP  
G176  
G177  
S178  
L179  
Y183  
I189  
R194  
V200  
R201  
D212  
GLY  
THR  
ARG  
PHE  
HIS  
ARG  
ARG  
GLN  
A220  
R237  
G244  
M247  
R248  
Q278  
P279  
V280  
Y285  
L311  
D343  
Q344  
P345  
C375  
T377

S401  
E410  
V423  
I424  
P446  
S447  
T448  
H449  
GLY  
ALA  
G452  
V460  
P467  
T468  
R469  
T472  
A473  
I474  
S490  
R491  
R510  
F515  
V520  
A524  
L528  
Q531  
H537  
H542  
GLU  
ALA  
SER  
SER  
MET  
G547  
T548  
R549  
V550  
H553  
GLN  
GLN  
GLY  
H557  
L571

GLY  
THR  
HIS  
LYS  
PRO  
PRO  
VAL  
LEU  
ARG  
PRO  
PRO  
ARG  
GLY  
GLN  
P565  
C588  
V589  
I596  
G605  
L606  
P616  
ALA  
PRO  
Q619  
T623  
E628  
L632  
L638  
P639  
GLY  
THR  
S642  
L645  
R659  
ASP  
VAL  
SER  
THR  
THR  
GLY  
SER  
THR  
GLU  
GLU  
A671  
V672  
T673  
S681  
ARG

HIS  
LEU  
ALA  
GLN  
ALA  
SER  
GLN  
GLU  
LEU  
GLN

- Molecule 3: MCR-ALA-7T2-GLY-004-7T2-SER-7T2-0NC inhibitor

Chain C:  33% 67%

KCH1  
A2  
F3  
G4  
O045  
F6  
S7  
F8  
A9

## 4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	62.95Å 70.75Å 150.09Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	58.05 – 3.00 58.05 – 3.00	Depositor EDS
% Data completeness (in resolution range)	99.7 (58.05-3.00) 99.7 (58.05-3.00)	Depositor EDS
$R_{merge}$	0.17	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	3.25 (at 3.01Å)	Xtrriage
Refinement program	PHENIX 1	Depositor
R, $R_{free}$	0.182 , 0.250 0.189 , 0.250	Depositor DCC
$R_{free}$ test set	687 reflections (4.87%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	40.2	Xtrriage
Anisotropy	0.387	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.34 , 33.9	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.50$ , $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
$F_o, F_c$ correlation	0.92	EDS
Total number of atoms	4353	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	20.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.85% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical 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, 7T2, MCR, 0NC, 004

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	0.65	0/757	0.77	0/1023
2	B	0.63	0/3599	0.80	1/4882 (0.0%)
3	C	1.30	0/12	2.28	1/11 (9.1%)
All	All	0.64	0/4368	0.80	2/5916 (0.0%)

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	B	0	1

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	179	LEU	CA-CB-CG	6.04	129.21	115.30
3	C	2	ALA	CB-CA-C	5.60	118.49	110.10

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	B	244	GLY	Peptide

## 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	740	0	750	1	0
2	B	3537	0	3451	29	0
3	C	75	0	25	0	0
4	B	1	0	0	0	0
All	All	4353	0	4226	30	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 4.

All (30) 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)
2:B:638:LEU:HD23	2:B:639:PRO:HD2	1.48	0.94
2:B:167:ARG:HB2	2:B:447:SER:OG	1.89	0.73
2:B:490:SER:HB2	2:B:520:VAL:HG12	1.69	0.72
2:B:194:ARG:O	2:B:237:ARG:NH1	2.30	0.64
2:B:446:PRO:HB2	2:B:448:THR:HG22	1.80	0.63
2:B:163:PRO:HG2	2:B:166:TYR:HB3	1.86	0.56
2:B:467:PRO:O	2:B:469:ARG:NH1	2.39	0.55
2:B:605:GLY:O	2:B:681:SER:HA	2.08	0.54
2:B:194:ARG:HG3	2:B:377:THR:HG22	1.91	0.52
2:B:183:TYR:CZ	2:B:248:ARG:HD2	2.48	0.48
2:B:177:GLY:HA2	2:B:401:SER:OG	2.13	0.48
2:B:588:CYS:HB2	2:B:596:ILE:HD12	1.97	0.47
2:B:638:LEU:HD12	2:B:673:THR:HG21	1.98	0.46
2:B:200:VAL:HG22	2:B:247:MET:HB2	1.97	0.46
2:B:469:ARG:HD2	2:B:515:PHE:CD2	2.52	0.45
1:A:101:GLN:OE1	1:A:133:LEU:HD11	2.17	0.44
2:B:550:VAL:HG12	2:B:596:ILE:HD11	2.00	0.44
2:B:606:LEU:HD12	2:B:606:LEU:HA	1.83	0.44
2:B:189:ILE:CD1	2:B:200:VAL:HG11	2.48	0.43
2:B:285:VAL:HB	2:B:311:LEU:HG	2.00	0.43
2:B:472:THR:HG21	2:B:510:ARG:HH11	1.84	0.43
2:B:345:PRO:HD3	2:B:424:ILE:HG23	2.00	0.43
2:B:474:ILE:HD11	2:B:510:ARG:NH2	2.34	0.42

*Continued on next page...*

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:410:GLU:HA	2:B:528:LEU:HD11	2.01	0.42
2:B:343:ASP:HB3	2:B:423:VAL:HG12	2.02	0.42
2:B:550:VAL:HG12	2:B:596:ILE:CD1	2.51	0.41
2:B:469:ARG:HD2	2:B:515:PHE:CG	2.55	0.41
2:B:632:LEU:HD12	2:B:632:LEU:HA	1.72	0.40
2:B:549:ARG:HG2	2:B:589:VAL:HG22	2.03	0.40
2:B:460:VAL:HB	2:B:524:ALA:HB3	2.04	0.40

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	90/152 (59%)	88 (98%)	2 (2%)	0	100	100
2	B	457/540 (85%)	447 (98%)	9 (2%)	1 (0%)	44	77
3	C	3/9 (33%)	2 (67%)	1 (33%)	0	100	100
All	All	550/701 (78%)	537 (98%)	12 (2%)	1 (0%)	44	77

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	B	280	VAL

### 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	79/127 (62%)	78 (99%)	1 (1%)	65	85
2	B	381/431 (88%)	370 (97%)	11 (3%)	37	70
3	C	1/1 (100%)	1 (100%)	0	100	100
All	All	461/559 (82%)	449 (97%)	12 (3%)	41	72

All (12) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	96	ARG
2	B	201	MET
2	B	278	GLN
2	B	375	CYS
2	B	537	HIS
2	B	571	LEU
2	B	596	ILE
2	B	623	THR
2	B	638	LEU
2	B	645	LEU
2	B	659	ARG
2	B	672	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

### 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	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
3	004	C	5	3	9,10,11	1.02	0	9,12,14	1.17	1 (11%)
3	0NC	C	9	3	5,6,6	1.19	1 (20%)	6,7,7	1.11	1 (16%)
3	7T2	C	3	3	12,13,14	0.83	0	15,16,18	2.12	5 (33%)
3	7T2	C	6	3	12,13,14	0.81	0	15,16,18	2.07	2 (13%)
3	7T2	C	8	3	12,13,14	0.72	0	15,16,18	2.93	4 (26%)

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
3	004	C	5	3	-	0/4/6/8	0/1/1/1
3	0NC	C	9	3	-	2/6/6/6	-
3	7T2	C	3	3	-	0/5/8/10	0/1/1/1
3	7T2	C	6	3	-	0/5/8/10	0/1/1/1
3	7T2	C	8	3	-	0/5/8/10	0/1/1/1

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	C	9	0NC	C-N1	2.43	1.36	1.33

All (13) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	C	8	7T2	CG-CB-CA	-9.15	100.49	113.51
3	C	6	7T2	CB-CA-N	-6.15	101.42	110.48
3	C	3	7T2	CG-CB-CA	-5.88	105.14	113.51
3	C	8	7T2	O-C-CA	-3.96	114.58	124.77
3	C	8	7T2	CB-CA-N	3.87	116.17	110.48
3	C	5	004	CB-CA-C	-3.21	103.08	112.09
3	C	3	7T2	O-C-CA	-2.75	117.70	124.77
3	C	6	7T2	CG-CB-CA	-2.50	109.95	113.51
3	C	3	7T2	CM-N-CA	2.50	121.17	113.70
3	C	3	7T2	CB-CA-C	-2.41	107.02	111.81
3	C	9	0NC	O-C-CA	-2.15	115.83	120.56
3	C	3	7T2	CE1-CD1-CG	-2.07	118.28	121.00
3	C	8	7T2	CB-CA-C	-2.05	107.72	111.81

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	C	9	0NC	O-C-CA-CB
3	C	9	0NC	N1-C-CA-CB

There are no ring outliers.

No monomer is involved in short contacts.

## 5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

## 5.6 Ligand geometry [i](#)

Of 1 ligands modelled in this entry, 1 is monoatomic - leaving 0 for Mogul analysis.

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 [i](#)

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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	A	92/152 (60%)	-0.64	0 <span style="border: 1px solid blue; padding: 2px;">100</span> <span style="border: 1px solid blue; padding: 2px;">100</span>	4, 12, 29, 48	0
2	B	477/540 (88%)	-0.24	19 (3%) <span style="border: 1px solid red; padding: 2px;">43</span> <span style="border: 1px solid red; padding: 2px;">25</span>	3, 16, 52, 91	0
3	C	3/9 (33%)	-0.24	0 <span style="border: 1px solid blue; padding: 2px;">100</span> <span style="border: 1px solid blue; padding: 2px;">100</span>	14, 14, 14, 28	0
All	All	572/701 (81%)	-0.31	19 (3%) <span style="border: 1px solid gray; padding: 2px;">49</span> <span style="border: 1px solid red; padding: 2px;">29</span>	3, 15, 51, 91	0

All (19) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	B	448	THR	5.0
2	B	177	GLY	4.1
2	B	571	LEU	3.8
2	B	515	PHE	3.7
2	B	449	HIS	3.6
2	B	671	ALA	3.4
2	B	447	SER	3.1
2	B	585	PRO	2.8
2	B	616	PRO	2.8
2	B	452	GLY	2.5
2	B	166	TYR	2.4
2	B	469	ARG	2.4
2	B	153	SER	2.3
2	B	176	GLY	2.2
2	B	628	GLU	2.1
2	B	531	GLN	2.1
2	B	542	ALA	2.0
2	B	642	SER	2.0
2	B	491	ARG	2.0

## 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<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
3	0NC	C	9	7/7	0.91	0.09	14,24,28,35	0
3	7T2	C	8	13/14	0.93	0.09	9,14,26,45	0
3	7T2	C	3	13/14	0.93	0.10	7,13,15,60	0
3	7T2	C	6	13/14	0.95	0.08	12,15,23,69	0
3	004	C	5	10/11	0.99	0.04	13,15,17,19	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<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
4	CA	B	701	1/1	0.84	0.16	38,38,38,38	0

## 6.5 Other polymers [i](#)

There are no such residues in this entry.