

Full wwPDB X-ray Structure Validation Report (i)

Oct 4, 2023 – 11:29 PM EDT

PDB ID : 6VGJ

Title : N-terminal variant of CXCL13 Authors : Rosenberg Jr., E.M.; Lolis, E.J.

Deposited on : 2020-01-08

Resolution : 2.52 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:

MolProbity : FAILED Xtriage (Phenix) : 1.13 EDS : FAILED

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

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

Validation Pipeline (wwPDB-VP) : 2.35.1

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 2.52 $\mbox{\normale A}$.

There are no overall percentile quality scores available for this entry.

MolProbity and EDS failed to run properly - the sequence quality summary graphics cannot be shown.



2 Entry composition (i)

There are 2 unique types of molecules in this entry. The entry contains 8513 atoms, of which 4264 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 C-X-C motif chemokine 13.

Mol	Chain	Residues			Aton	ıs			ZeroOcc	AltConf	Trace	
1	A	79	Total	С	Н	N	О	S	0	0	0	
1	A	19	1288	411	649	112	109	7	0	0	U	
1	1 B	72	Total	С	Н	N	О	S	0	0	0	
1	Б	12	1186	374	597	108	100	7				
1	С	71	Total	С	Н	N	О	S	0	0	0	
1		11	1165	369	585	106	98	7	U			
1	1 D	72	Total	С	Η	N	О	S	0	0	0	
1	D	12	1136	364	565	103	97	7				
1	E	E 78	Total	С	Η	N	О	S	0	0	0	
1	Ľ	10	1263	398	637	115	107	6	0			
1	1 F	77	Total	С	Η	N	О	S	0	0	0	
1	I.	11	1232	394	618	106	107	7				
1	G	C 72	G 73	Total	С	Η	N	О	S	0	0	0
1	G	10	1214	380	613	112	102	7		U	0	

There are 7 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	2	MET	LEU	engineered mutation	UNP O43927
В	2	MET	LEU	engineered mutation	UNP O43927
С	2	MET	LEU	engineered mutation	UNP O43927
D	2	MET	LEU	engineered mutation	UNP O43927
Е	2	MET	LEU	engineered mutation	UNP O43927
F	2	MET	LEU	engineered mutation	UNP O43927
G	2	MET	LEU	engineered mutation	UNP O43927

• Molecule 2 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	5	Total O 5 5	0	0
2	В	8	Total O 8 8	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	С	5	Total O 5 5	0	0
2	D	4	Total O 4 4	0	0
2	E	3	Total O 3 3	0	0
2	F	1	Total O 1 1	0	0
2	G	3	Total O 3 3	0	0

MolProbity and EDS failed to run properly - this section is therefore empty.



3 Data and refinement statistics (i)

EDS failed to run properly - this section is therefore incomplete.

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants	69.76Å 41.57Å 111.77Å	Depositor
a, b, c, α , β , γ	90.00° 102.12° 90.00°	Depositor
Resolution (Å)	47.82 - 2.52	Depositor
% Data completeness	95.4 (47.82-2.52)	Depositor
(in resolution range)	, ,	
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) > 1$	0.75 (at 2.51Å)	Xtriage
Refinement program	PHENIX dev_3946	Depositor
R, R_{free}	0.249 , 0.279	Depositor
Wilson B-factor (\mathring{A}^2)	43.8	Xtriage
Anisotropy	0.348	Xtriage
L-test for twinning ²	$ < L > = 0.49, < L^2> = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
Total number of atoms	8513	wwPDB-VP
Average B, all atoms (Å ²)	54.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: The largest off-origin peak in the Patterson function is 6.26% 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.

4 Model quality (i)

4.1 Standard geometry (i)

MolProbity failed to run properly - this section is therefore empty.

4.2 Too-close contacts (i)

MolProbity failed to run properly - this section is therefore empty.

4.3 Torsion angles (i)

4.3.1 Protein backbone (i)

MolProbity failed to run properly - this section is therefore empty.

4.3.2 Protein sidechains (i)

MolProbity failed to run properly - this section is therefore empty.

4.3.3 RNA (i)

MolProbity failed to run properly - this section is therefore empty.

4.4 Non-standard residues in protein, DNA, RNA chains (i)

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

4.5 Carbohydrates (i)

There are no monosaccharides in this entry.

4.6 Ligand geometry (i)

There are no ligands in this entry.

4.7 Other polymers (i)

There are no such residues in this entry.



4.8 Polymer linkage issues (i)

There are no chain breaks in this entry.



5 Fit of model and data (i)

5.1 Protein, DNA and RNA chains (i)

EDS failed to run properly - this section is therefore empty.

5.2 Non-standard residues in protein, DNA, RNA chains (i)

EDS failed to run properly - this section is therefore empty.

5.3 Carbohydrates (i)

EDS failed to run properly - this section is therefore empty.

5.4 Ligands (i)

EDS failed to run properly - this section is therefore empty.

5.5 Other polymers (i)

EDS failed to run properly - this section is therefore empty.

