



# Full wwPDB Geometry-Only Validation Report ⓘ

May 16, 2020 – 05:08 am BST

PDB ID : 1W2R  
Title : Solution structure of CR2 SCR 1-2 by X-ray scattering  
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Deposited on : 2004-07-08  
Resolution : Not provided

This is a Full wwPDB Geometry-Only 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.

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The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467  
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) : 2.11



## 2 Entry composition i

There is only 1 type of molecule in this entry. The entry contains 852 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 COMPLEMENT RECEPTOR TYPE 2 PRECURSOR,.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf	Trace
1	1-A	142	Total C 142 142	0	0	142
1	2-A	142	Total C 142 142	0	0	142
1	3-A	142	Total C 142 142	0	0	142
1	4-A	142	Total C 142 142	0	0	142
1	5-A	142	Total C 142 142	0	0	142
1	6-A	142	Total C 142 142	0	0	142

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	67	GLN	GLU	conflict	UNP P20023

### 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. 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. 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.

Note EDS was not executed.

- Molecule 1: COMPLEMENT RECEPTOR TYPE 2 PRECURSOR,

Chain 1-A:  99%



- Molecule 1: COMPLEMENT RECEPTOR TYPE 2 PRECURSOR,

Chain 2-A:  99%



- Molecule 1: COMPLEMENT RECEPTOR TYPE 2 PRECURSOR,

Chain 3-A:  96%



- Molecule 1: COMPLEMENT RECEPTOR TYPE 2 PRECURSOR,

Chain 4-A:  94% 6%



- Molecule 1: COMPLEMENT RECEPTOR TYPE 2 PRECURSOR,

Chain 5-A:  96%



- Molecule 1: COMPLEMENT RECEPTOR TYPE 2 PRECURSOR,

Chain 6-A:  96%



## 4 Model quality [i](#)

### 4.1 Standard geometry [i](#)

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).

There are no protein, RNA or DNA chains available to summarize Z scores of covalent bonds and angles.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

### 4.2 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	1-A	142	0	0	1	0
1	2-A	142	0	0	1	0
1	3-A	142	0	0	3	0
1	4-A	142	0	0	5	0
1	5-A	142	0	0	3	0
1	6-A	142	0	0	3	0
All	All	852	0	0	16	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 19.

All (16) 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:A:72:TYR:CA	1:A:119:ASN:CA	1.89	1.47
1:A:107:SER:CA	1:A:135:PRO:CA	1.98	1.40
1:A:107:SER:CA	1:A:135:PRO:CA	1.98	1.39

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:73:SER:CA	1:A:120:ASN:CA	2.00	1.37
1:A:73:SER:CA	1:A:120:ASN:CA	2.10	1.27
1:A:72:TYR:CA	1:A:94:HIS:CA	2.53	0.86
1:A:73:SER:CA	1:A:94:HIS:CA	2.83	0.57
1:A:72:TYR:CA	1:A:120:ASN:CA	2.89	0.49
1:A:23:THR:CA	1:A:24:PRO:CA	2.96	0.43
1:A:23:THR:CA	1:A:24:PRO:CA	2.96	0.43
1:A:23:THR:CA	1:A:24:PRO:CA	2.96	0.43
1:A:23:THR:CA	1:A:24:PRO:CA	2.96	0.43
1:A:23:THR:CA	1:A:24:PRO:CA	2.96	0.43
1:A:23:THR:CA	1:A:24:PRO:CA	2.96	0.43
1:A:90:THR:CA	1:A:91:PRO:CA	3.00	0.40
1:A:90:THR:CA	1:A:91:PRO:CA	2.99	0.40

There are no symmetry-related clashes.

## 4.3 Torsion angles [i](#)

### 4.3.1 Protein backbone [i](#)

There are no protein backbone outliers to report in this entry.

### 4.3.2 Protein sidechains [i](#)

There are no protein residues with a non-rotameric sidechain to report in this entry.

### 4.3.3 RNA [i](#)

There are no RNA molecules in this entry.

## 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 carbohydrates 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.