pdb format:

PDB files contain information about the 3D structure of proteins.

One record per line

The first six characters of the record determine the record type

HEADER : short description & PDB identifier

Columns	Example	Description
1-6	HEADER	Fixed string identifying each line.
63-66	3JAC	PDB ID

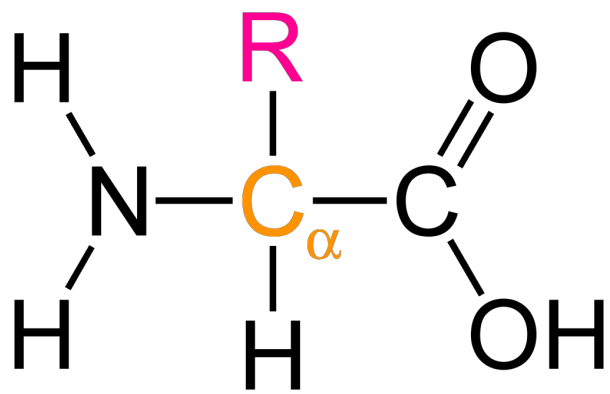
3jac.pdb

```
3jac.pdb
    1 HEADER    METAL TRANSPORT                         05-JUN-15   3JAC
    2 TITLE     CRYO-EM STUDY OF A CHANNEL
    3 COMPND    MOL_ID: 1;
    4 COMPND   2 MOLECULE: PIEZO-TYPE MECHANOSENSITIVE ION CHANNEL COMPONENT 1;
    5 COMPND   3 CHAIN: A, B, C;
    6 COMPND   4 SYNONYM: PROTEIN FAM38A;
    7 COMPND   5 ENGINEERED: YES
    8 SOURCE    MOL_ID: 1;
    9 SOURCE   2 ORGANISM_SCIENTIFIC: MUS MUSCULUS;
   10 SOURCE   3 ORGANISM_COMMON: MOUSE;
```

pdb format:

PDB files contain information about the 3D structure of proteins.
One record per line
The first six characters of the record determine the record type
HEADER : short description & PDB identifier
ATOM: Specify the chain, residue and atom information, including the coordinates, for one atom

```
ATOM   3554  N   VAL B 567     -19.159   3.100  -6.625  1.00 30.00           N
ATOM   3555  CA  VAL B 567     -18.816   4.270  -5.821  1.00 30.00           C
ATOM   3556  C   VAL B 567     -17.366   4.679  -6.056  1.00 30.00           C
ATOM   3557  O   VAL B 567     -17.044   5.865  -6.150  1.00 30.00           O
ATOM   3558  CB  VAL B 567     -19.032   4.008  -4.323  1.00 20.00           C
ATOM   3559  CG1 VAL B 567     -18.868   5.296  -3.542  1.00 20.00           C
ATOM   3560  CG2 VAL B 567     -20.406   3.412  -4.080  1.00 20.00           C
```




```
ATOM   3554  N   VAL B 567     -19.159   3.100  -6.625  1.00 30.00           N
ATOM   3555  CA  VAL B 567     -18.816   4.270  -5.821  1.00 30.00           C
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ATOM   3560  CG2 VAL B 567     -20.406   3.412  -4.080  1.00 20.00           C
```

Description of the fields in an ATOM record.

Columns	Example	Description
1-6	ATOM	Fixed string identifying each line.
7-11	7507	Atom serial number.
13-16	CA	Atom name.
18-20	ILE	Residue name.
22	B	Chain identifier.
23 - 26	255	Residue sequence number.
31 - 38	35.578	X coordinate of atom.
39 - 46	9.357	Y coordinate of atom.
47 - 54	5.792	Z coordinate of atom.

```
ATOM   3560  CG2 VAL B 567     -20.406   3.412  -4.080  1.00 20.00           C
```