

## Deposition Checklist

### ✓ Check sample sequence

Refer to UniProt

### ✓ Check ligands

Are these correctly assigned?

### ✓ Prepare data for deposition

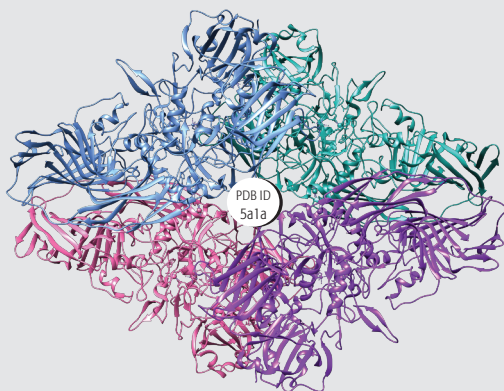
Generate PDBx/mmCIF-formatted data files to provide the most complete information about your structure

### ✓ Validate your data

Use wwPDB's standalone validation service

### ✓ Deposit your structure using OneDep System

When you are ready



## Online Resources

PDB\_extract: [pdb-extract.wwpdb.org](http://pdb-extract.wwpdb.org)

Validation: [validate.wwpdb.org](http://validate.wwpdb.org)

Deposition: [deposit.wwpdb.org](http://deposit.wwpdb.org)

## Further Information

Tutorials and FAQs for validation and deposition can be found at:

[www.wwpdb.org/validation/validation-reports](http://www.wwpdb.org/validation/validation-reports)

[wwpdb.org/deposition/tutorial](http://wwpdb.org/deposition/tutorial)

[wwpdb.org/deposition/faq](http://wwpdb.org/deposition/faq)

## Contact Information

[validation@mail.wwpdb.org](mailto:validation@mail.wwpdb.org)

[deposit-help@mail.wwpdb.org](mailto:deposit-help@mail.wwpdb.org)

## Citation Information

### Cite wwPDB:

*Nature Structural Biology* **10**, 980 (2003)

doi: 10.1038/nsb1203-980

### Cite OneDep:

*Structure* **25**, 536-545 (2017)

doi: 10.1016/j.str.2017.01.004

## wwPDB Members



[wwPDB.org](http://wwPDB.org)



# 5 EASY STEPS TO PDB DEPOSITION



# 5 Easy Steps to PDB Deposition with OneDep

## 1 | Check Sample Sequence

Sequence should

- Contain all residues
- Include expression tags and disordered residues

Check against reference database with BLAST

- Proteins → **UniProt BLAST**
- Nucleic acids → **NCBI BLAST**

**!** Any mismatch should correspond to mutation, variant or expression tag in your sequence.

*Example of a UniProt alignment with highlighted mismatch*

Query

61 RWWANDGRTPGSR

RWW NDGRTPGSR

79 RWWCNDGRTPGSR

**P00698**  
(UniProt Sequence)

## 2 | Check Ligands

Are your ligands already in our Chemical Component Dictionary (CCD)?

Check at:

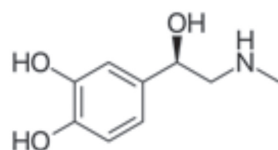
- Ligand Expo  
**ligand-expo.rcsb.org**
- PDBeChem  
**pdbe.org/chem**
- Chemie search  
**pdj.org/chemie-search**

Is the ligand present in the CCD?

**Yes** The 3-character code for your ligand should match that in the dictionary

**No** During deposition you can provide a SMILES or upload a 2D chemical diagram

*Example of a chemical diagram that should be provided at deposition*



## 3 | Prepare Data

Generate coordinate file in PDBx/mmCIF format

- This can be output directly from some refinement programs (e.g., PHENIX, REFMAC)
- This ensures that the maximum metadata is captured from the file for deposition

**pdb\_extract** can be used to extract information. Visit **pdb-extract.wwpdb.org**

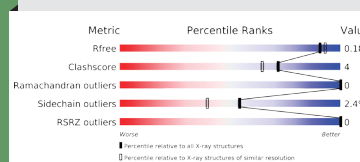
- Creates single PDBx/mmCIF file containing extra meta data (e.g., author info, data collection and refinement stats) using output log files
- Converts SF files to PDBx/mmCIF format for non-MTZ format files

## 4 | Validate! Validate!

The wwPDB provides a standalone validation server for checking your structure. Visit **validate.wwpdb.org**

- Both model and experimental data are validated
- Provides detailed reports (PDF and XML files)

**!** Attempt to fix major issues highlighted prior to deposition to minimize the requirement for replacement files. It will reduce the time needed to process your entry.



## 5 | Deposit your Structure

Deposition to the OneDep system can be carried out at the wwPDB deposition pages. Visit **deposit.wwpdb.org**

Deposition is tailored to experimental type:

- X-ray, Neutron, NMR, EM, or any combination of these
- You must upload the relevant coordinate and experimental data files and include mandatory information

A session ID is provided to enable you to continue your deposition at a later date. A PDB ID will be provided upon completion of your deposition.

## After Deposition

Entries are annotated, validated, and returned to authors for review

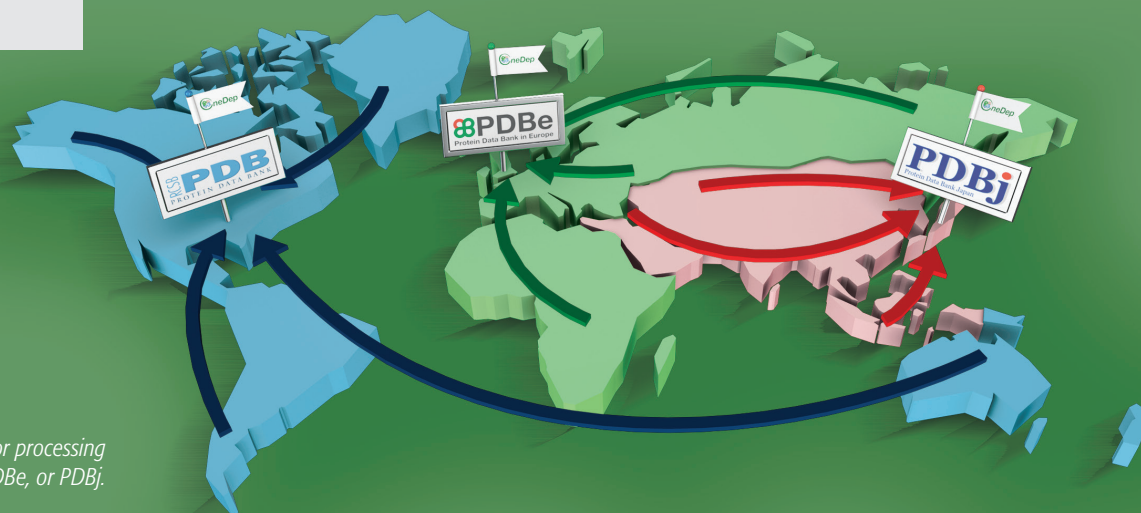
- Processed files and official validation report can be downloaded at communication page

**Request entry release and provide citation publication information using OneDep's communication panel.**

Coordinate release follows instructions given at deposition

- **REL** - released immediately after processing
- **HPUB** - hold until publication, up to 1 year
- **HOLD** - hold up to 1 year

If the structure is not published within 1 year, you have the option to either release or withdraw the entry.



*Depending on the depositor's geographical location, the structure will be assigned for processing to one of the worldwide Protein Data Bank sites: RCSB PDB, PDBe, or PDBj.*