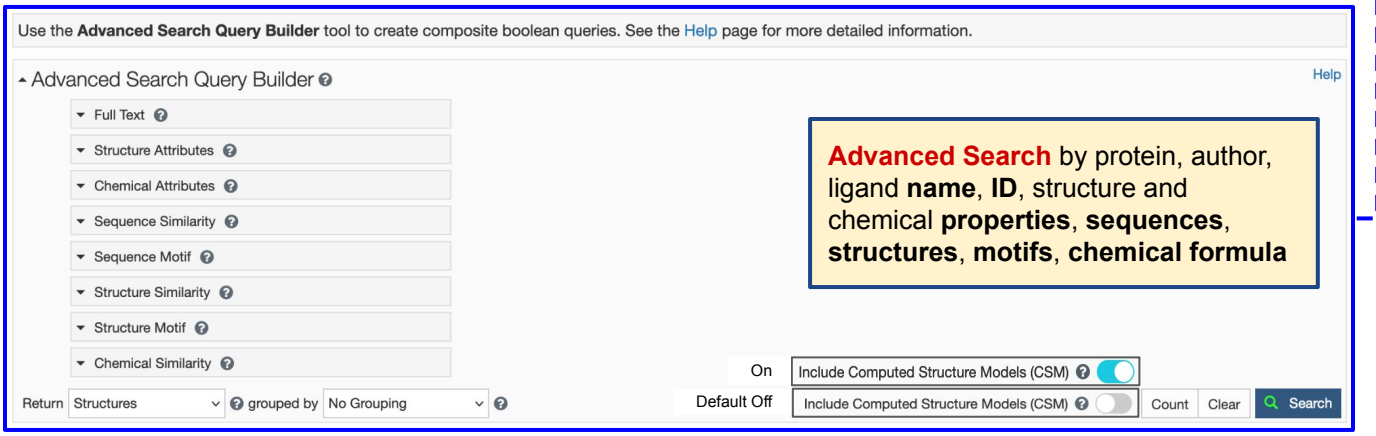
Top Bar or Basic Search

**Top Bar Search** by **molecule** name; **entry ID** (e.g., PDB, UniProt, AlphaFold ID); **author name**; protein or DNA/RNA **sequence**

**Include** CSMs - switch On

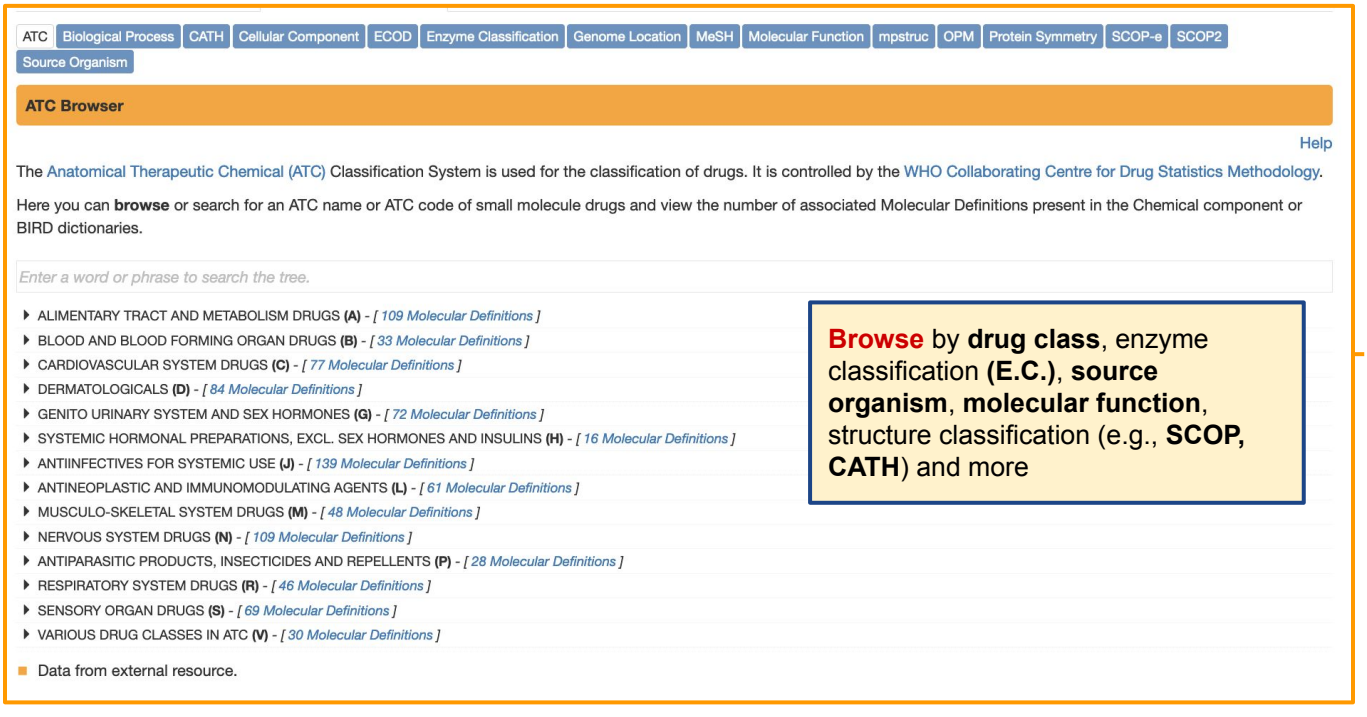
**Search**


Advanced Search




**Advanced Search** by protein, author, ligand **name**, **ID**, structure and chemical **properties**, **sequences**, **structures**, **motifs**, **chemical formula**

Browse




**Browse** by **drug class**, enzyme classification **(E.C.)**, **source organism**, **molecular function**, structure classification (e.g., **SCOP, CATH**) and more

# Top Bar Search *options*

Turn On to include CSMs

On

Search

A

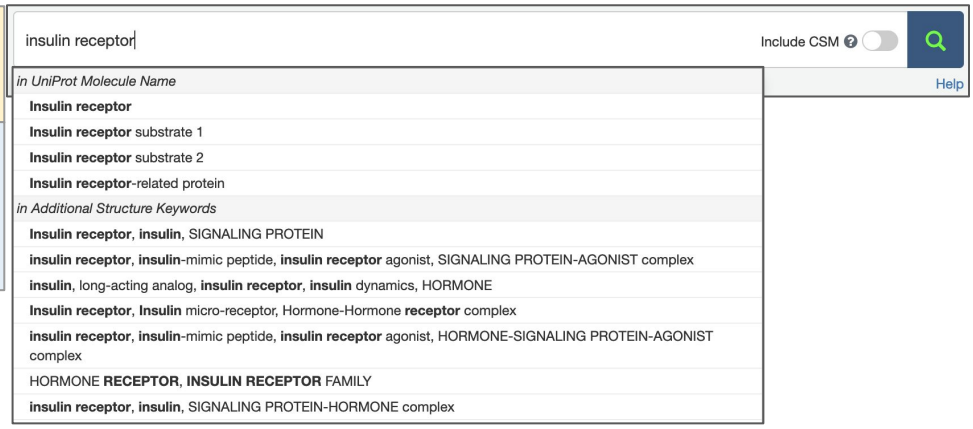
**Query**: Type word, phrase, ID → press enter OR click on Search icon

**Result**: All structures with any of the words or ID returned. This is a very broad search option. Use the Refinements menu to select relevant structures from the results.


B

**Query**: Type word, phrase, ID → select from options provided in auto suggest box → press enter OR click on Search icon

**Result**: Auto suggestion box presents options where query text appears in specific structure properties - e.g., protein name, keywords, structure title. This yields a more refined set of structures.




C

**Query**: Type word, phrase, ID with Boolean operation symbols → press enter OR click on Search icon

**Result**: Structures matching the text combined with the Boolean operators used (e.g., + is AND, | is OR, - is NOT) is returned. Search **results** are more specific compared to option A. Use Refinements menu options to select relevant structures from results.


| Action | Operator | Description | Example |
|---|---|---|---|
| OR | Multiple keywords, \| | Will find entries containing either Word1 or Word2 | *Citrate Synthase Citrate \| Synthase* |
| AND | + or plus sign | Will find entries containing both Word1 and Word2 anywhere in the entry. | *Citrate + Synthase* |
| NOT | - or minus sign | Will find entries where Word1 is not found anywhere in the entry. | *-Citrate* (Note searching for "-Citrate" with quotes will return entries containing the phrase -Citrate) |
| Indicate order of search terms | ( ) or parenthesis | Placing parentheses around search terms will indicate the order of the search. | *-(Citrate+Synthase) -(Citrate \| Synthase)* |
| Search for a phrase | " " or quotations | Using quotes around a search term will find entries containing that exact phrase. | *"Citrate Synthase"* |

D

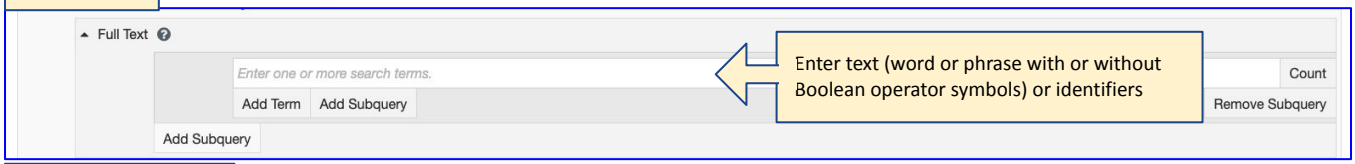
**Query**: Paste protein, DNA, or RNA sequence → press enter OR click on Search icon

**Result**: Exact polymer sequence matches and similar polymer sequences are returned along with measures showing the match extent.

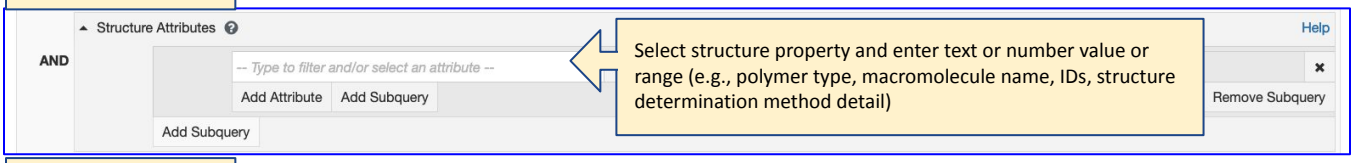
# Advanced Search Query Builder *options*

Query options

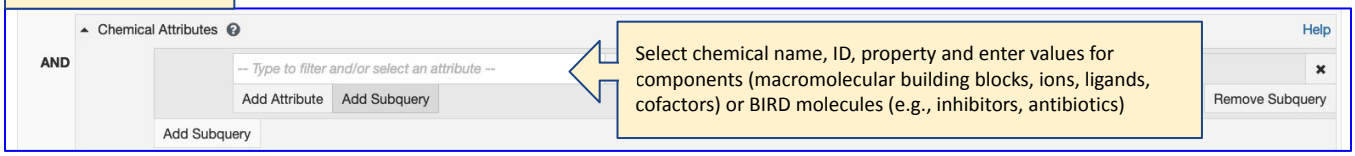
## Full text




## Structure Attributes

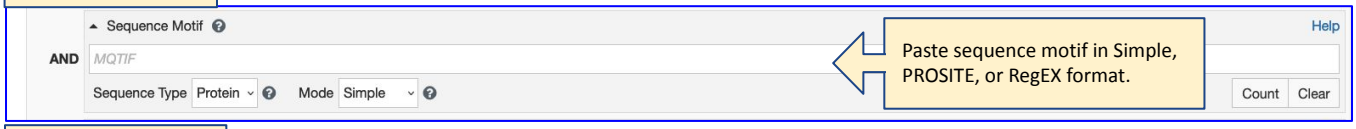



## Chemical Attributes

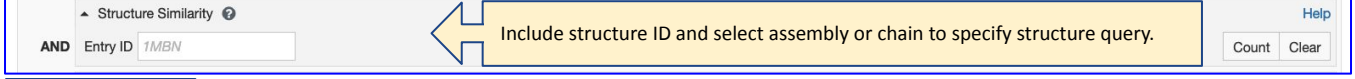



## Sequence Similarity

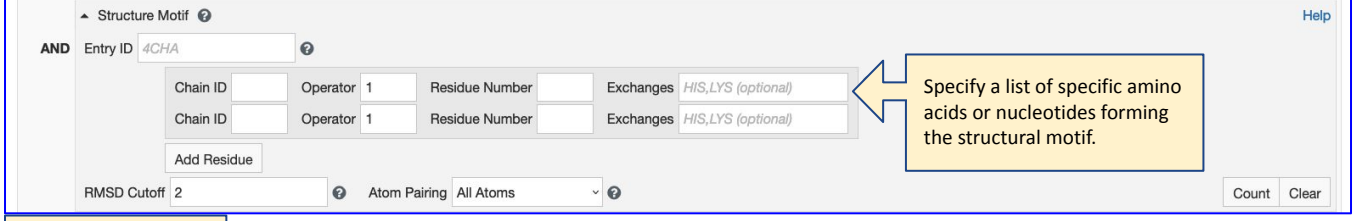

## Sequence Motif



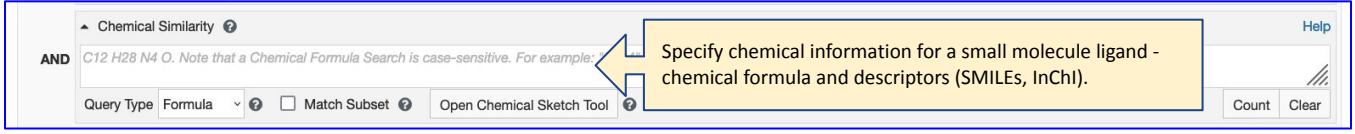

## Structure Similarity



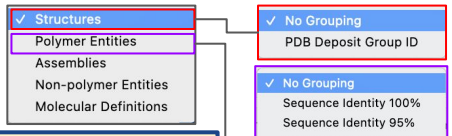

## Structure Motif




## Chemical Similarity




Result options


**What is returned?**
structure, polymer, assembly, or ligand



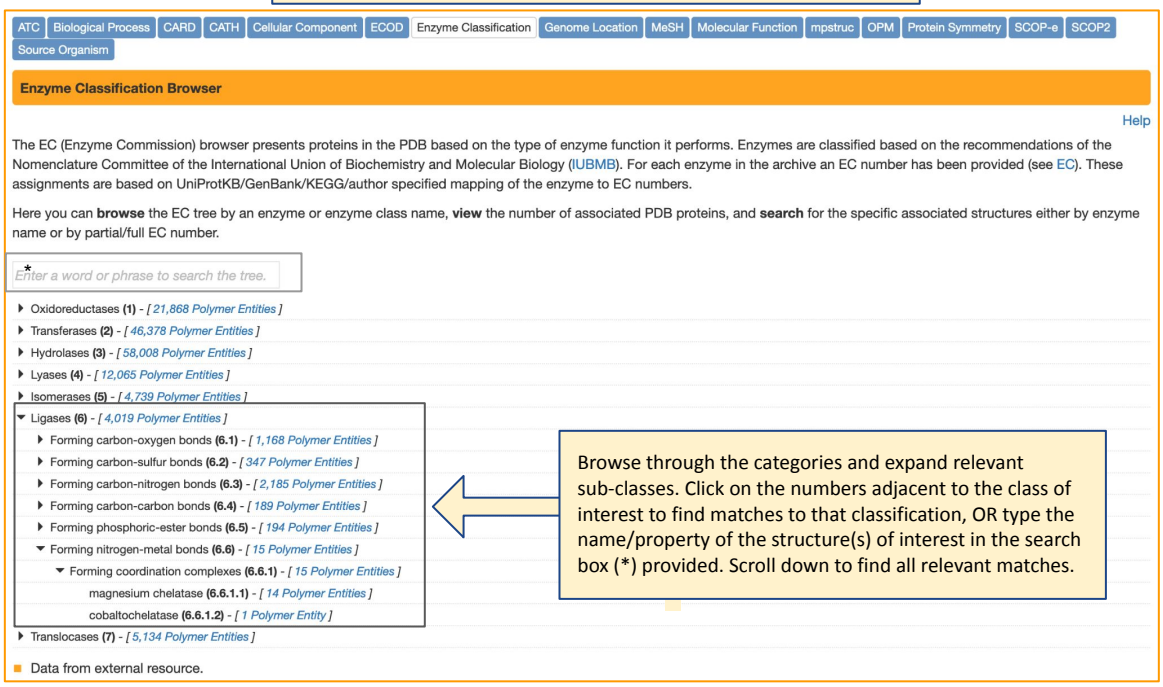

**How are results presented?**
list or groups

On
Include Computed Structure Models (CSM)

**Include CSMs?**
Turn On

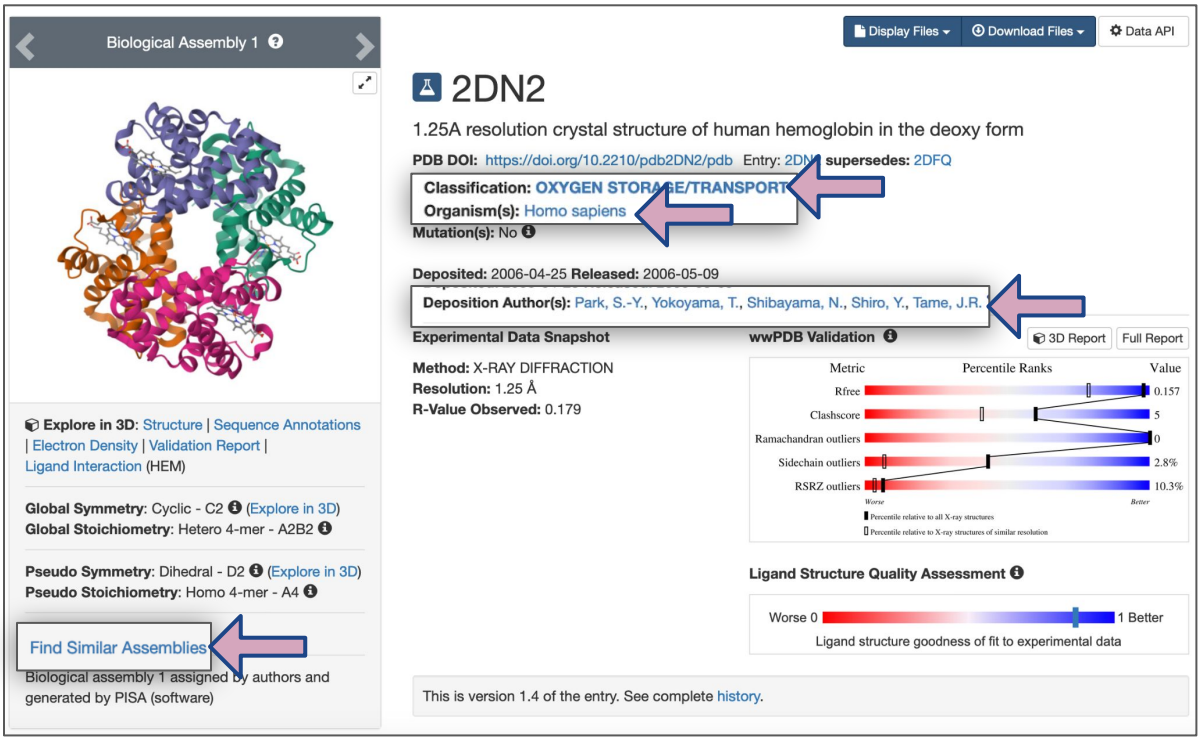
**Search**

# **Browse** *options*

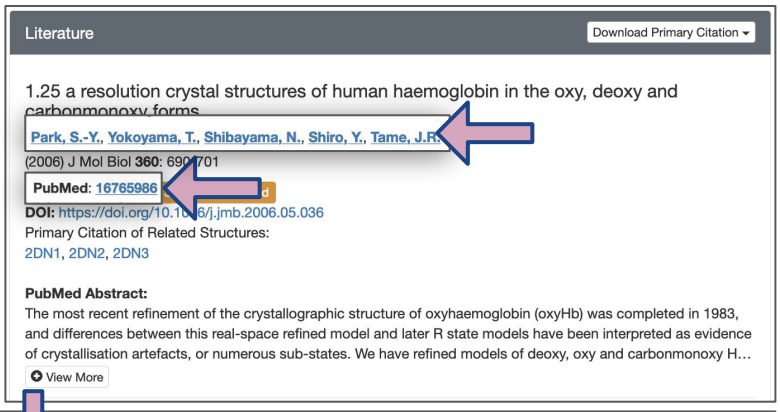


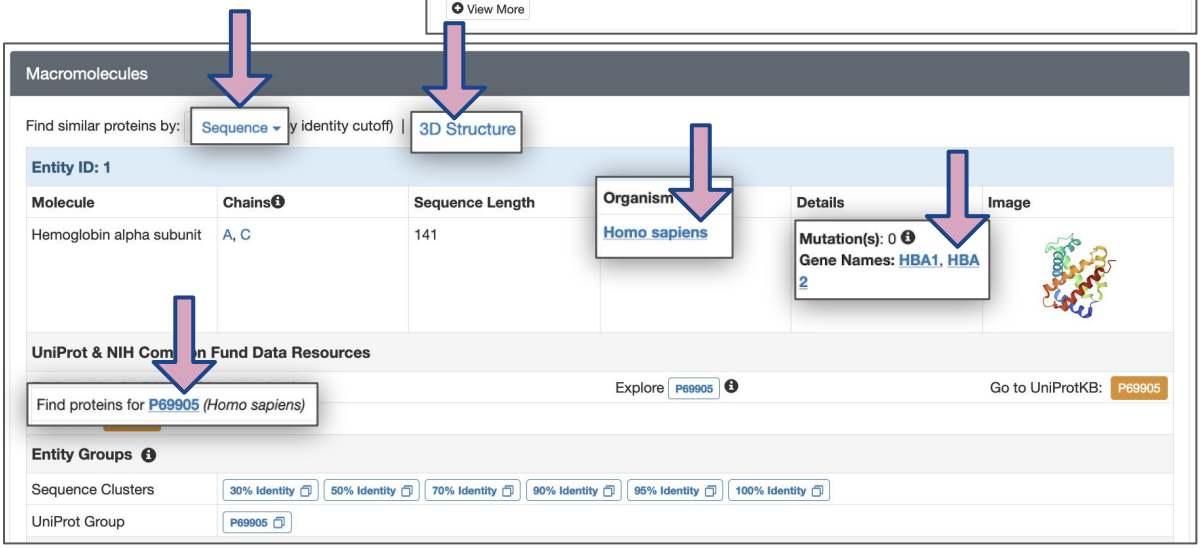

| Browse contents of archive by | Browse level |
|---|---|
| **ATC** (Anatomical Therapeutic Chemical) | Small molecular drug definitions |
| **Biological process** (by Gene Ontology Consortium (GO)) | Protein function |
| **CARD** (Comprehensive Antibiotic Resistance Database) | Protein function |
| **CATH** (Structure Classification) | Structure |
| **Cellular Component** (Cellular location, by Gene Ontology Consortium (GO)) | Protein |
| **ECOD** (Evolutionary Classification) | Structure |
| **Enzyme Classification** (E.C.) | Protein function |
| **Genome Location** | Protein/polymer location in genome |
| **MeSH** (Medical Subject Headings) | Structure |
| **Molecular Function** (by Gene Ontology Consortium (GO)) | Protein function |
| **mpstruc** (membrane proteins of known 3D structure) | Membrane association of protein |
| **OPM** ( Orientations of Proteins in Membranes) | Membrane association of protein |
| **Protein Symmetry** | Assembly |
| **SCOP-e** (Structure Classification) | Structure |
| **SCOP2** (Structure Classification) | Structure |
| **Source Organism** | Protein/polymer source |

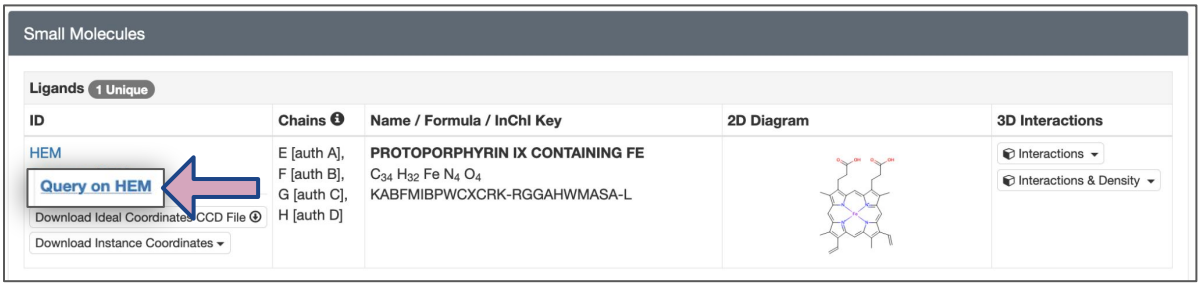
# Query by Example *options*



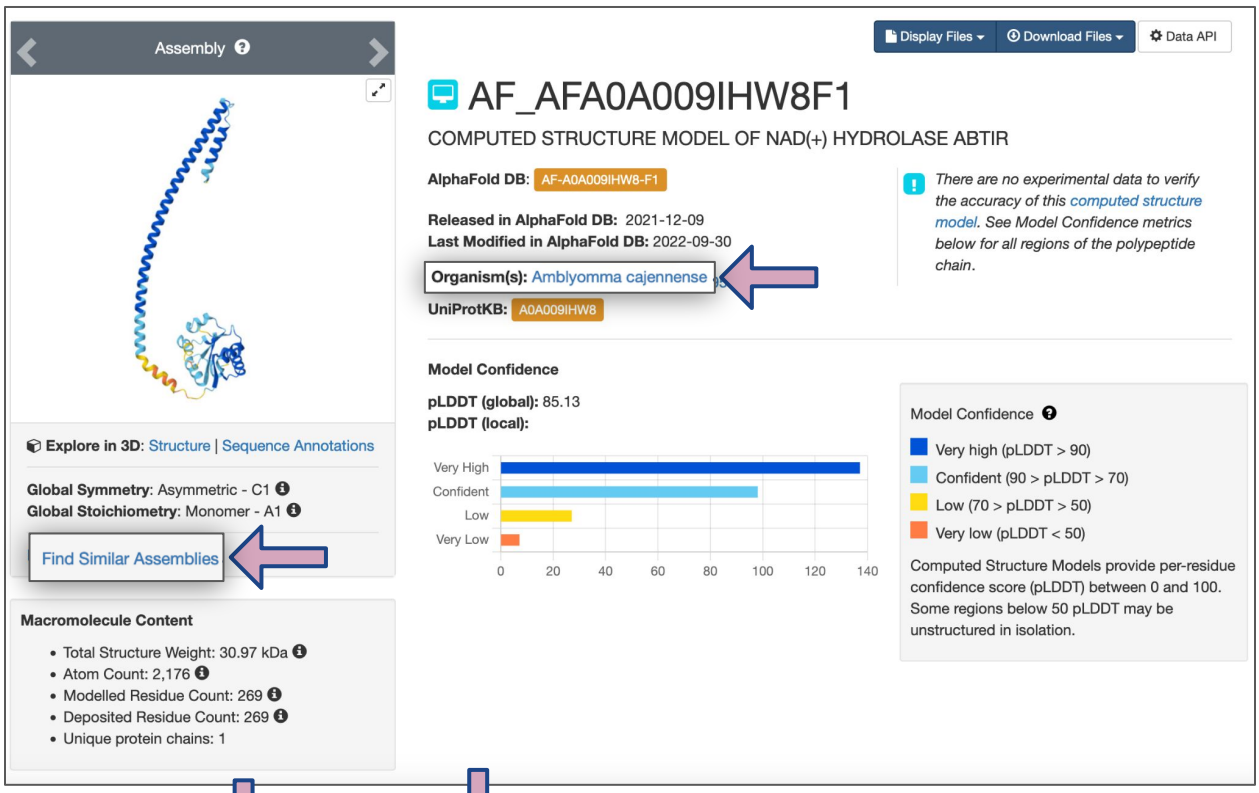

Click on hyperlink to launch a query

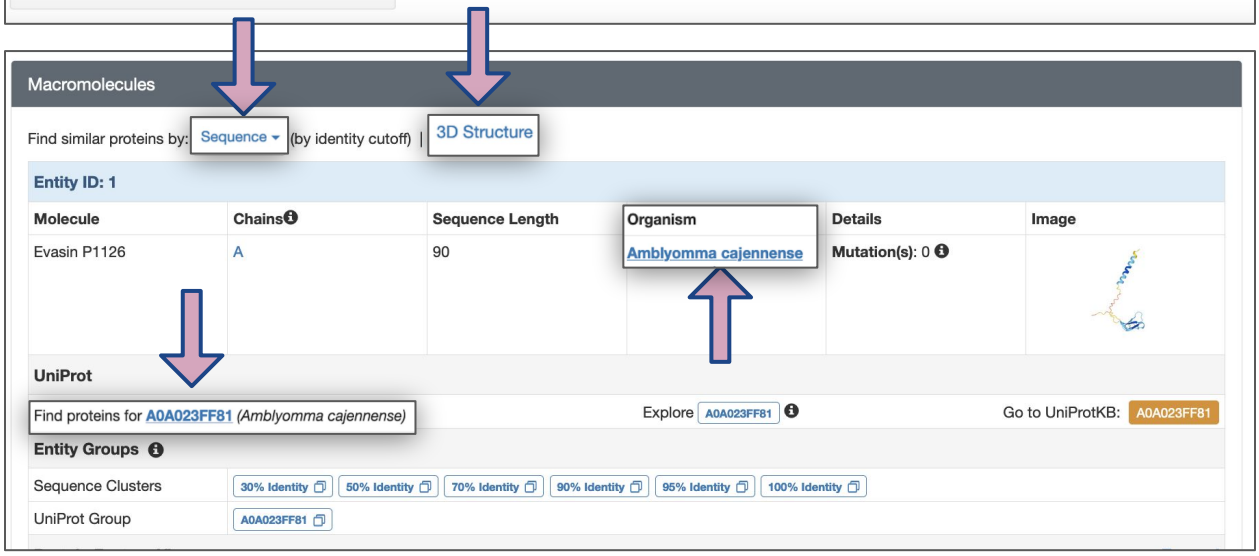


# Query by Example *options*




Click on hyperlink to launch a query