The Enzyme Portal - bringing enzyme data together

One portal, many sources

Enzymes play a vital role in all life processes and are used extensively in biomedical and biotechnology. Information about enzymes is available in several different Bioinformatics resources, each of which is built with different communities in mind.

The Enzyme Portal brings all of this public information together in one place – it is a unique, invaluable resource for scientists and health researchers in academia and industry.

Enzyme Summary page

Switch between orthologs using the dropdown. The page provides tabs for:

- Enzyme function and overview
- 3D protein structure
- Reactions, catalytic activity and pathways
- Small molecules (co-factors, activators, inhibitors, drugs)
- Related diseases
- Relevant bibliographic information

Comparing enzymes

You can add enzymes to your basket from the search results page and then select any two enzymes to compare.

The tool shows a comparison of the enzymes’ names, species, function, enzyme classification, reactions and pathways, small molecules and related diseases. It provides a link to launch sequence alignment of the enzyme’s sequences in UniProt and a link to launch the PDBeFold structure similarity tool.

What can I use it for?

- Search for enzymes with a keyword such as a name, EC number, disease and so on
- Browse enzyme data by diseases, enzyme classification, taxonomy and pathways
- Filter search results by species, chemical compounds, diseases and enzyme family
- Compare enzymes from your basket
- Retrieve known orthologs for a given enzyme
- Retrieve specific enzyme info summarised from relevant EMBL-EBI services