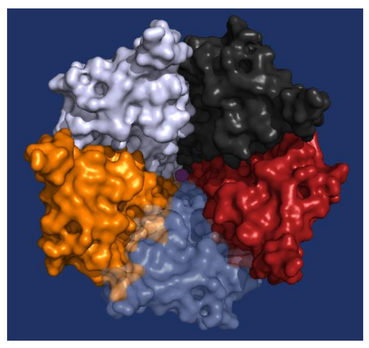
# IUPHAR/BPS Guide to PHARMACOLOGY*

## Expert-driven curation of pharmacological targets and the substances that act on them

*Now the home of IUPHAR-DB

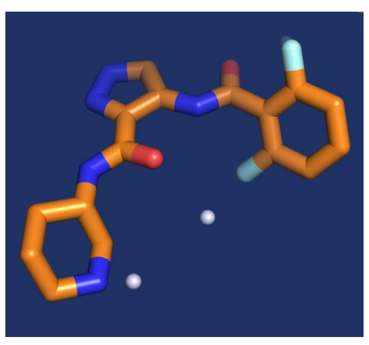
**www.guidetopharmacology.org**

### THERAPEUTIC & RESEARCH TARGETS



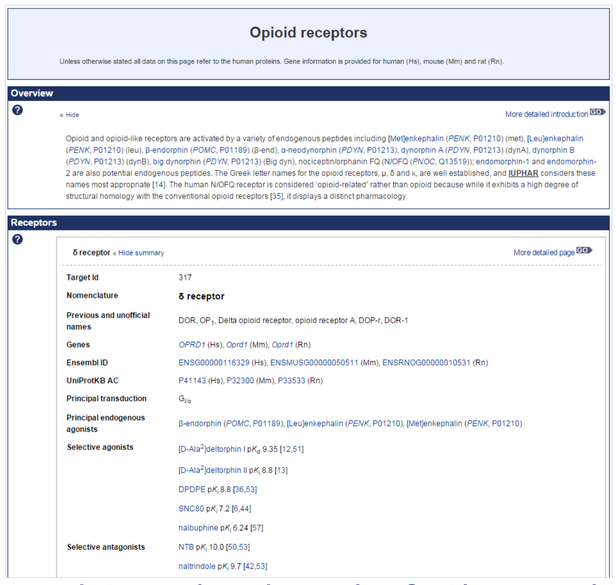
- G protein-coupled receptors (GPCRs)
- Ion channels
- Nuclear hormone receptors
- Catalytic receptors
- Kinases
- Proteases
- Other enzymes
- Transporters
- Other protein targets

### ENDOGENOUS & EXPERIMENTAL LIGANDS



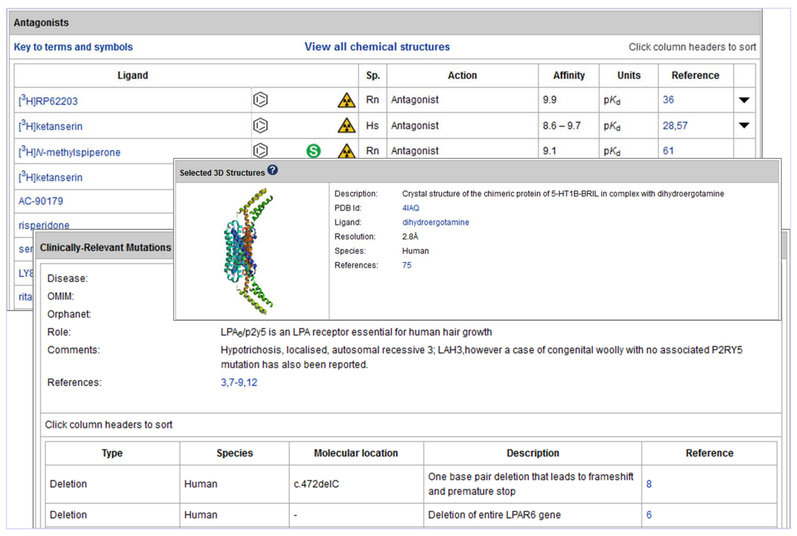
- Approved drugs
- Synthetic organics
- Metabolites
- Natural products
- Endogenous peptides
- Other peptides
- Inorganics
- Antibodies
- Labelled ligands

### EXPERT SUMMARIES FOR TARGET FAMILIES



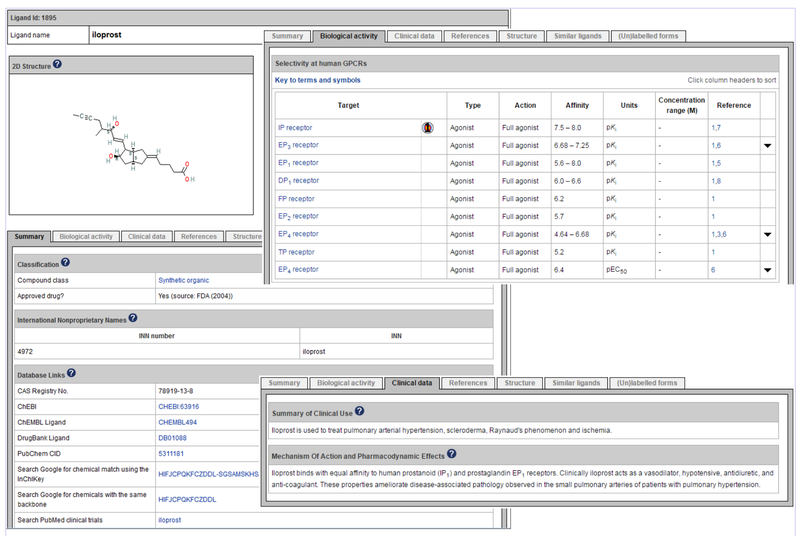

- Nomenclature, key ligands, further reading

### DETAILED ANNOTATION FOR IMPORTANT TARGETS




- Function, (patho)physiology, pharmacology

### CURATED INFORMATION ON APPROVED DRUGS AND THEIR HUMAN TARGETS



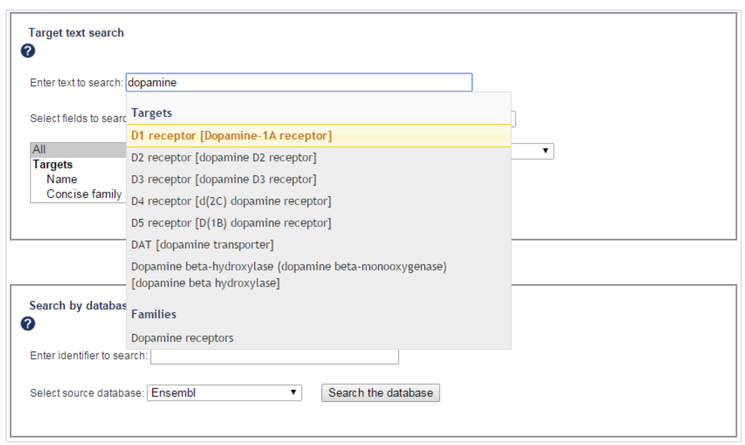

- Clinical status, mechanism of action, $K_i$/$IC_{50}$

### NC-IUPHAR REVIEWS



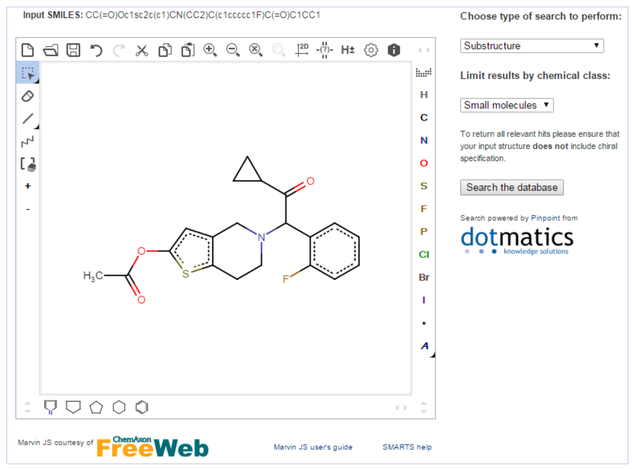
- Nomenclature articles in *Pharmacological Reviews*
- Reviews and editorials on varied topics in *British Journal of Pharmacology*
- Targets and ligands in *BJP* articles linked to the database

### TARGET SEARCH TOOLS




- Search for targets by name or keyword
- Search by identifier
- Search by PubMed Id or author

### LIGAND SEARCH TOOLS




- Search for ligands by name
- Search by identifier
- Search by chemical structure

### CONCISE GUIDE TO PHARMACOLOGY


- A publication snapshot created from the database summary pages
- At-a-glance view of target properties
- Provides a citable record **www.guidetopharmacology.org/concise**

### WEBSITE FEATURES

- Links to other databases
- Download data sets
- Tutorial and help pages
- News, hot topics, latest receptor-ligand pairings
- NC-IUPHAR nomenclature guidelines
- REST web services and RDF data

### CONTACT

enquiries@guidetopharmacology.org

SlideShare

### Guide to IMMUNOPHARMACOLOGY

IUPHAR Guide to IMMUNOPHARMACOLOGY

- A new portal linking targets and ligands to immunological cell types, processes and diseases
- Immuno-relevant targets and ligands in Guide to PHARMACOLOGY are flagged
- Browse by cell type or immunological process to find targets
- Browse by disease to find targets and drugs

**www.guidetoimmunopharmacology.org**

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We especially thank all contributors, collaborators and NC-IUPHAR members

### REFERENCES

1. Harding SD *et al*. (2018) The IUPHAR/BPS Guide to PHARMACOLOGY in 2018: Updates and expansion to encompass the new Guide to IMMUNOPHARMACOLOGY. *Nucl. Acids Res*. **46** (Database Issue). doi: 10.1093/nar/gkx1121. [Epub ahead of print]

2. Alexander SPH *et al*. (2017) The Concise Guide to PHARMACOLOGY 2017/18. *Br J Pharmacol*. **174** (Suppl 1): S1-S446.