

- Finally let's try BindingDB (<http://www.bindingdb.org/bind/index.jsp>)
- Search for “succinate dehydrogenase”. Then click on “succinate dehydrogenase [ubiquinone] iron-sulfur subunit, mitochondrial”.
- How many hits do you get?



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● **Search and Browse**

Target

[Sequence](#)

[Name &](#)

[Ki](#) [IC50](#) [Kd](#) [EC50](#)

[Rate constants](#)

[ΔG°](#) [ΔH°](#) [-TΔS°](#)

The Binding Database

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BindingDB is a public, web-accessible database of measured binding affinities, focusing chiefly on the interactions of protein considered to be drug-targets with small, drug-like molecules. BindingDB contains 1,794,819 binding data, for 7,438 protein targets and 796,104 small molecules.

There are 2291 protein-ligand crystal structures with BindingDB affinity measurements for proteins with **100%** sequence identity, and 5816 crystal structures allowing proteins to **85%** sequence identity.

Simple Search

Article Titles, Authors,
Assays, Compound
Names, Target Names

Use ? for single-letter wild-card or * for general wild-card.
For example, "adeny*" or "adeny?". Query cannot start with wild card.

BindingDB News

November 2017. If you are interested in preparing a multi-targeted compound collection, you may be interested in our new [download](#). This file lists all purchasable compounds for all Targets in BindingDB, with an affinity better than 10 micromolar, and includes catalog information. See "Purchasable Compounds" [for details on our database](#).

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- Search for “succinate dehydrogenase”. Then click on “succinate dehydrogenase [ubiquinone] iron-sulfur subunit, mitochondrial”.
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- I see 57!

The Binding Database

Home Info Download About us Email us Contribute data Web Services

myBDB logout
Search and Browse

Target
 Sequences
 Name &
 KI IC50 Kd EC50
 Rate constants
 ΔG° ΔH° $-\Delta S^\circ$
 pH (Enzymatic Assay)
 pH (ITC)
 Substrate or Competitor
 Compound Mol. Wt.
 Chemical Structure

Pathways
 Source Organism
 Number of Compounds
 Monomer List in csv
 Hit List in SDF

Compound
 FDA Drugs
 Important Compounds
 Chemical Structure
 Name
 SMILES
 Number of Data / Targets

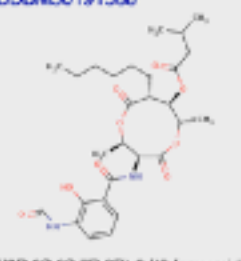
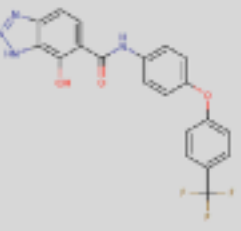
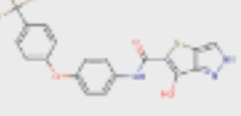
Special tools
 3D Structure Series
 Find My Compound's Targets
 Find Compounds for My Targets
 Do Virtual Screening
 SCOP

Compile Data Set for Download or QSAR
 Add this page Add all pages Clear Selection Make Data Set

E-MAIL

Found 57 hits

Sort by KI

Target/Host (nucleotide)	Ligand	Target/Host Links	Ligand Links	Trg + Lig Links	KI nM	ΔG° kcal/mole	IC50 nM	Kd nM	EC50/IC50 nM	K_{cat} s ⁻¹	K_{cat}/K_m s ⁻¹ M ⁻¹	pH	Temp °C
Succinate dehydrogenase [ubiquinone] iron-sulfur subunit, mitochondrial (Septoria tritici)	BOBM50191538  (2R,3S,6S,7R,8R)-3-[(3-tert-butyl-2-hydroxybenzoyl)-...] Show SMILES Show InChI	UniProtKB/SwissProt Google Scholar	Purchase ChEMBL KEGG PC cid PC sid PDB UniChem Similar	Article PubMed	n/a	n/a	2	n/a	n/a	n/a	n/a	n/a	n/a
Stine/Haskell Research Center Curated by ChEMBL					Assay Description Inhibition of <i>Septoria nodorum</i> succinate dehydrogenase and Qi site of mitochondrial respiratory chain complex 3 by FMET2-3 assay				J Med Chem 49: 4762-6 (2006) Article DOI: 10.1021/jm05248u BindingDB Entry DOI: 10.26434/chemdb.org				
More data for this Ligand-Target Pair													
Succinate dehydrogenase [ubiquinone] iron-sulfur subunit, mitochondrial (Septoria tritici)	BOBM50411095  (CHEMBL438607) Show SMILES Show InChI	UniProtKB/SwissProt Google Scholar	ChEMBL PC cid PC sid UniChem Similar	Article PubMed	n/a	n/a	5	n/a	n/a	n/a	n/a	n/a	n/a
Stine/Haskell Research Center Curated by ChEMBL					Assay Description Inhibition of <i>Septoria nodorum</i> succinate dehydrogenase and Qi site of mitochondrial respiratory chain complex 3 by FMET2-3 assay				J Med Chem 49: 4762-6 (2006) Article DOI: 10.1021/jm05248u BindingDB Entry DOI: 10.26434/chemdb.org				
More data for this Ligand-Target Pair													
Succinate dehydrogenase [ubiquinone] iron-sulfur subunit, mitochondrial (Septoria tritici)	BOBM50411096  (CHEMBL438607) Show SMILES Show InChI	UniProtKB/SwissProt Google Scholar	ChEMBL PC cid PC sid UniChem Similar	Article PubMed	n/a	n/a	26	n/a	n/a	n/a	n/a	n/a	n/a
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