

- Are there currently any drugs that target SDH?
- No


**Therapeutic Target Database**



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Target Information

Target General Information

Target ID	T39811 (Former ID: TTDI01376)
Target Name	Succinate dehydrogenase (SDHD)
Synonyms	Succinate-ubiquinone reductase membrane anchor subunit; Succinate-ubiquinone oxidoreductase cytochrome b small subunit; Succinate dehydrogenase complex subunit D; Succinate dehydrogenase [ubiquinone] cytochrome b small subunit, mitochondrial; SDH4; QPs3; CybS; CII-4
Gene Name	SDHD
Target Type	Literature-reported target [1]
Function	Membrane-anchoring subunit of succinate dehydrogenase (SDH) that is involved in complex II of the mitochondrial electron transport chain and is responsible for transferring electrons from succinate to ubiquinone (coenzyme Q).
UniProt ID	DHSD_HUMAN
Sequence	MAVLWRLSAVCGALGGRALLLRTPVVRPAHISAFIQDRPIEWCGVQHIHLSPSHHSGSK AASLHWTSEVVSVLLGLLPAAYLNPSCAMDYSLAAALTLHGHWGLGQVVTDYVHGDL QKAAKAGLLALSALTFAGLCYFNYHVDVGICKAVAMLWKL

References

REF 1	Succinate dehydrogenase is a direct target of sirtuin 3 deacetylase activity. PLoS One. 2011;6(8):e23295.
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If you find any error in data or bug in web service, please kindly report it to [Dr. Wang](#) and [Dr. Li](#).

- 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**

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## 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](#).