

Recombinant Human SDHD

Cat. No. SDHD-31390TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human SDHD with a N terminal proprietary tag: predicted MW 43.56 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	159 amino acids
Description	Complex II of the respiratory chain, which is specifically involved in the oxidation of succinate, carries electrons from FADH to CoQ. The complex is composed of four nuclear-encoded subunits and is localized in the mitochondrial inner membrane. The subunit D protein is one of two integral membrane proteins anchoring the complex to the matrix side of the membrane. Mutations in SDHD have been linked to hereditary paraganglioma.
Molecular Weight	43.560kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Sequences of amino acids	MAVLWRLSAVCGALGGRALLLRTPVVRPAHISAFQDRPI PEWCGVQHIHLSPSHH SGSKAASLHWTSEKVVSVLLGLL PAAYLNPCSAKDYSLAAALTLHGHWGLGQVVT DYVHGDAI QKAAKAGLLALSALTFAGLCYFNYHVDVGICKAVAMLWKL
Sequence Similarities	Belongs to the CybS family.
GENE INFORMATION	
Gene Name	SDHD succinate dehydrogenase complex, subunit D, integral membrane protein [Homo sapiens]
Official Symbol	SDHD
Synonyms	SDHD; succinate dehydrogenase complex, subunit D, integral membrane protein; PGL, PGL1; succinate dehydrogenase [ubiquinone] cytochrome b small subunit, mitochondrial;
Gene ID	6392
mRNA Refseq	NM_003002
Protein Refseq	NP_002993
MIM	602690
Uniprot ID	O14521
Chromosome Location	11q23
Pathway	Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved

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biosystem; Citrate cycle (TCA cycle), organism-specific biosystem; Citrate cycle (TCA cycle), conserved biosystem; Citrate cycle, second carbon oxidation, 2-oxoglutarate
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Function

electron carrier activity; heme binding; metal ion binding; succinate dehydrogenase activity; ubiquinone binding;

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