Recombinant Human SDHB, His-tagged

Cat. No. SDHB-31392TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length protein, corresponding to amino acids 1-280 of Human SDHB with N terminal His tag, MWt 35kDa.
Species	Human
Source	E.coli
ProteinLength	1-280 a.a.
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 iron-sulfur subunit is highly conserved and contains three cysteine-rich clusters which may comprise the iron-sulfur centers of the enzyme. Sporadic and familial mutations in this gene result in paragangliomas and pheochromocytoma, and support a link between mitochondrial dysfunction and tumorigenesis.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 96 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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Sequences of amino acids	MAAVVALSLRRRLPATTLGGACLQASRGAQTAAATAPRIK KFAIYRWDPDKAGDKP HMQTYEVDLNKCGPMVLDALIK IKNEVDSTLTFRRSCREGICGSCAMNINGGNTLAC TRR IDTNLNKVSKIYPLPHMYVIKDLVPDLSNFYAQYKSIE PYLKKKDESQEGKQQY LQSIEEREKLDGLYECILCACCST SCPSYWWNGDKYLGPAVLMQAYRWMIDSRDD FTEERLA KLQDPFSLYRCHTIMNCTRTCPKGLNPGKAIAEIKKMM ATYKEKKASV
Sequence Similarities	Belongs to the succinate dehydrogenase/fumarate reductase iron-sulfur protein family.Contains 1 2Fe-2S ferredoxin-type domain.Contains 1 4Fe-4S ferredoxin-type domain.
Full Length	Full L.

GENE INFORMATION

Gene Name	SDHB succinate dehydrogenase complex, subunit B, iron sulfur (Ip) [Homo sapiens]
Official Symbol	SDHB
Synonyms	SDHB; succinate dehydrogenase complex, subunit B, iron sulfur (Ip); SDH, SDH1; succinate dehydrogenase [ubiquinone] iron-sulfur subunit, mitochondrial;
Gene ID	6390
mRNA Refseq	NM_003000
Protein Refseq	NP_002991
MIM	185470
Uniprot ID	P21912

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Chromosome Location	1p36.1-p35
Pathway	Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Citrate cycle (TCA cycle), organism-specific biosystem; Citrate cycle (TCA cycle), conserved biosystem; Citrate cycle, second carbon oxidation, 2-oxoglutarate =>
Function	2 iron, 2 sulfur cluster binding; 3 iron, 4 sulfur cluster binding; 4 iron, 4 sulfur cluster binding; electron carrier activity; metal ion binding;

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