Recombinant Mouse Hscb Protein, MYC/DDK-tagged

Cat. No. Hscb-169M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of full-length mouse HscB iron-sulfur cluster co-chaperone (Hscb), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Acts as a co-chaperone in iron-sulfur cluster assembly in both mitochondria and the cytoplasm. Required for incorporation of iron-sulfur clusters into SDHB, the iron-sulfur protein subunit of succinate dehydrogenase that is involved in complex II of the mitochondrial electron transport chain. Recruited to SDHB by interaction with SDHAF1 which first binds SDHB and then recruits the iron-sulfur transfer complex formed by HSC20, HSPA9 and ISCU through direct binding to HSC20. Also mediates complex formation between components of the cytosolic iron-sulfur biogenesis pathway and the CIA targeting complex composed of CIAO1, DIPK1B/FAM69B and MMS19 by binding directly to the scaffold protein ISCU and to CIAO1. This facilitates iron-sulfur cluster insertion into a number of cytoplasmic and nuclear proteins including POLD1, ELP3, DPYD and PPAT.
Molecular Mass	18.5 kDa
Purity	>80%, as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 ug/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Hscb HscB iron-sulfur cluster co-chaperone [Mus musculus (house mouse)]
Official Symbol	Hscb
Synonyms	Hscb; HscB iron-sulfur cluster co-chaperone; Hsc20; AI325508; AW049829; iron-sulfur cluster co-chaperone protein HscB; HscB iron-sulfur cluster co-chaperone homolog; J-type co-chaperone HSC20; iron-sulfur cluster co-chaperone protein HscB, mitochondrial
Gene ID	100900
mRNA Refseq	NM_153571
Protein Refseq	NP_705799
UniProt ID	Q8K3A0

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