

Recombinant Human HSCB Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. HSCB-5456H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	HSCB MS Standard C13 and N15-labeled recombinant protein (NP_741999) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a DnaJ-type co-chaperone and member of the heat shock cognate B (HscB) family of proteins. The encoded protein plays a role in the synthesis of iron-sulfur clusters, protein cofactors that are involved in the redox reactions of mitochondrial electron transport and other processes. Cells in which this gene is knocked down exhibit reduced activity of iron-sulfur cluster-dependent enzymes including succinate dehydrogenase and aconitase. The encoded protein may stimulate the ATPase activity of the mitochondrial stress-70 protein. Alternative splicing results in multiple transcript variants.
Molecular Mass	27.2 kDa
AA Sequence	MWRGRAGALLRVWGFWPTGVPRRRPLSCDAASQAGSNYPWCWNCGGPWGPGR EDRFFCPQCRALQAPDPTRDYFSLMDCNRSFRVDTAKLQHRYQQQLQRLVHPDFFS QRSQTEKDFSEKHSTLVNDAYKTLLAPLSRGLYLLKLHGIEIPERTDYEMDRQFLIEIM EINEKLAEAESEAAMKEIESIVKAKQKEFTDNVSSAFEQDDFEEAKEILTKMRYFSNIE EKIKLKKIPLTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	HSCB HscB mitochondrial iron-sulfur cluster cochaperone [Homo sapiens (human)]
Official Symbol	HSCB
Synonyms	HSCB; HscB iron-sulfur cluster co-chaperone homolog (E. coli); JAC1; HSC20; DNAJC20; dJ366L4.2; iron-sulfur cluster co-chaperone protein HscB, mitochondrial; J-type co-chaperone HSC20; dnaJ homolog subfamily C member 20; DnaJ (Hsp40) homolog, subfamily C, member 20; Jac1
Gene ID	150274
mRNA Refseq	NM_172002
Protein Refseq	NP_741999
MIM	608142
UniProt ID	Q8IWL3

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