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Product datasheet for TP500873

Chchd4 (NM_133928) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse coiled-coil-helix-coiled-coil-helix domain containing 4 (Chchd4), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR200873 protein sequence Red=Cloning site Green=Tags(s) MSYCRQEGKDRIIFVTKEDHETPSSAELVADDPNDPYEEHGLILPNGDINWNCPCLGGMASGPCGEQFKS AFSCFHYSTEDIKGSDCIDQFRAMQECMQKYPDLYPQDEEEEEEAKPVEPVEETADTKVSAAKEQGTSS TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-MYC/DDK
Predicted MW:	15.5 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_598689
Locus ID:	72170
UniProt ID:	Q8VEA4
RefSeq Size:	1245
Cytogenetics:	6 D1
RefSeq ORF:	420

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Synonyms: 2410012P20Rik; 2810014D17Rik; AI838740

Summary: Functions as chaperone and catalyzes the formation of disulfide bonds in substrate proteins, such as COX17, COX19 and MICU1. Required for the import and folding of small cysteine-containing proteins (small Tim) in the mitochondrial intermembrane space (IMS). Precursor proteins to be imported into the IMS are translocated in their reduced form into the mitochondria. The oxidized form of CHCHD4/MIA40 forms a transient intermolecular disulfide bridge with the reduced precursor protein, resulting in oxidation of the precursor protein that now contains an intramolecular disulfide bond and is able to undergo folding in the IMS. Reduced CHCHD4/MIA40 is then reoxidized by GFER/ERV1 via a disulfide relay system. Mediates formation of disulfide bond in MICU1 in the IMS, promoting formation of the MICU1-MICU2 heterodimer that regulates mitochondrial calcium uptake.[UniProtKB/Swiss-Prot Function]