

## Recombinant Mouse Chchd4 Protein, Myc/DDK-tagged

Cat. No. Chchd4-2138M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Purified recombinant protein of mouse full-length coiled-coil-helix-coiled-coil-helix domain containing 4 (Chchd4), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>Description</b>	<p>Central component of a redox-sensitive mitochondrial intermembrane space import machinery which is required for the biogenesis of respiratory chain complexes. Functions as chaperone and catalyzes the formation of disulfide bonds in substrate proteins, such as COX17, COX19, MICU1 and COA7. Required for the import and folding of small cysteine-containing proteins (small Tim) in the mitochondrial intermembrane space (IMS). Required for the import of COA7 in the 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.</p>
<b>Molecular Mass</b>	15.5 kDa

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<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Stability</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>Storage</b>	Store at -80 centigrade after receiving vials.
<b>Concentration</b>	>50 µg/mL as determined by microplate BCA method
<b>Storage Buffer</b>	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Chchd4 coiled-coil-helix-coiled-coil-helix domain containing 4 [ Mus musculus (house mouse) ]</a>
<b>Official Symbol</b>	<a href="#">Chchd4</a>
<b>Synonyms</b>	CHCHD4; coiled-coil-helix-coiled-coil-helix domain containing 4; mitochondrial intermembrane space import and assembly protein 40; coiled-coil-helix-coiled-coil-helix domain-containing protein 4; A1838740; 2410012P20Rik; 2810014D17Rik
<b>Gene ID</b>	<a href="#">72170</a>
<b>mRNA Refseq</b>	<a href="#">NM_133928</a>
<b>Protein Refseq</b>	<a href="#">NP_598689</a>
<b>UniProt ID</b>	<a href="#">Q8VEA4</a>

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