

Recombinant Mouse Micu1 Protein, Myc/DDK-tagged

Cat. No. Micu1-4068M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length mitochondrial calcium uptake 1 (Micu1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Key regulator of mitochondrial calcium uniporter (MCU) that senses calcium level via its EF-hand domains. MICU1 and MICU2 form a disulfide-linked heterodimer that stimulates and inhibits MCU activity, depending on the concentration of calcium. MICU1 acts both as an activator or inhibitor of mitochondrial calcium uptake. Acts as a gatekeeper of MCU at low concentration of calcium, preventing channel opening. Enhances MCU opening at high calcium concentration, allowing a rapid response of mitochondria to calcium signals generated in the cytoplasm. Regulates glucose-dependent insulin secretion in pancreatic beta-cells by regulating mitochondrial calcium uptake. Induces T-helper 1-mediated autoreactivity, which is accompanied by the release of IFNG.
Molecular Mass	54.4 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 µg/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	Micu1 mitochondrial calcium uptake 1 [<i>Mus musculus</i> (house mouse)]
Official Symbol	Micu1
Synonyms	MICU1; mitochondrial calcium uptake 1; calcium uptake protein 1, mitochondrial; calcium binding atopy-related autoantigen 1; calcium-binding atopy-related autoantigen 1 homolog; Calc; Cbara1; C730016L05Rik; MGC29229; MGC36365; MGC36503; MGC36634
Gene ID	216001
mRNA Refseq	NM_144822
Protein Refseq	NP_659071
UniProt ID	Q8VCX5

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