

Recombinant Human inner membrane protein, mitochondrial Protein, His tagged

Cat. No. IMMT-016H Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant human IMMT/Mitofilin protein (Q16891) (Arg 195-Glu 379) with a His tag at the C-terminus was expressed in E. coli.

Species

Human

Source

E.coli

ProteinLength

195-379aa

Description

Mitochondrial inner membrane protein is a protein that in humans is encoded by the IMMT gene. IMMT encodes an inner mitochondrial membrane (IMM) protein in the nucleus. It is posttranslational transported to the IMM. Mic60/Mitofilin (encoded by the IMMT gene) is a core subunit of the MICOS-complex, directly located next to cristae junctions (CJ). Human Mic60 exists in two isoforms of different size, anchored to the IMM via its N-terminus, while most of the protein is located to the inner mitochondrial space (IMS). Mic60 is evolutionary one of the oldest MICOS subunits as homologous were found in anaerobic prokaryotes. It is mainly present in two isoforms (ca. 88 and 90 kDa). In the brain, four isoforms are known, which differ in their isoelectric point due to different post-translational modifications. The amino terminus of Mic60 is anchored in the IM, while most of the protein is extended to the IMS. C-terminal Mic60 has a conserved mitofilin domain which is crucial for building the MICOS-complex. A central coiled-coil domain is required to enable protein-protein interactions.

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Tag	C-His
Molecular Mass	22 kDa
Endotoxin	Less than 1.0 EU/μg by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Storage	Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.
Reconstitution	Reconstitute at 250 μg/mL in sterile water.

GENE INFORMATION

Gene Name	IMMT inner membrane protein, mitochondrial [Homo sapiens (human)]
Official Symbol	IMMT
Synonyms	IMMT; inner membrane protein, mitochondrial; inner membrane protein, mitochondrial (mitofilin); mitochondrial inner membrane protein; HMP; MINOS2; mitochondrial inner membrane organizing system 2; mitofilin; P87; P89; motor protein; proliferation-inducing gene 4; cell proliferation-inducing protein 52; cell proliferation-inducing gene 4/52 protein; PIG4; PIG52; P87/89; MGC111146; DKFZp779P1653;
Gene ID	10989

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mRNA Refseq	NM_001100169
Protein Refseq	NP_001093639
MIM	600378
UniProt ID	Q16891

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