Recombinant Mouse Ethe1 Protein, Myc/DDK-tagged

Cat. No. Ethe1-2879M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length ethylmalonic encephalopathy 1 (Ethe1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	First described as a protein that can shuttle between the nucleus and the cytoplasm and suppress p53-induced apoptosis by sequestering the transcription factor RELA/NFKB3 in the cytoplasm and preventing its accumulation in the nucleus. Sulfur dioxygenase that plays an essential role in hydrogen sulfide catabolism in the mitochondrial matrix. Hydrogen sulfide (H2S) is first oxidized by SQRDL, giving rise to cysteine persulfide residues. ETHE1 consumes molecular oxygen to catalyze the oxidation of the persulfide, once it has been transferred to a thiophilic acceptor, such as glutathione (R-SSH). Plays an important role in metabolic homeostasis in mitochondria by metabolizing hydrogen sulfide and preventing the accumulation of supraphysiological H2S levels that have toxic effects, due to the inhibition of cytochrome c oxidase.
Molecular Mass	27.7 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	Ethe1 ethylmalonic encephalopathy 1 [Mus musculus (house mouse)]
Official Symbol	Ethe1
Synonyms	ETHE1; ethylmalonic encephalopathy 1; protein ETHE1, mitochondrial; hepatoma subtracted clone one protein; ethylmalonic encephalopathy protein 1 homolog; Hsco; 0610025L15Rik; MGC102424
Gene ID	66071
mRNA Refseq	NM_023154
Protein Refseq	NP_075643
UniProt ID	Q9DCM0

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