

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 (H ₂ S) 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 H ₂ S 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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