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Product datasheet for TP503256

Ethe1 (NM_023154) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse ethylmalonic encephalopathy 1 (Ethe1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR203256 protein sequence Red=Cloning site Green=Tags(s) MASAVVRVAGRRLSQQSASGAPVLLRQMFEPKSCTYTYLLGDRESREAVLIDPVLETAHRDAQLIKELGL KLLYAVNTHCHADHITGTGVLRSLLPGCQSVISRLSGAQADLHIGEGDSIRFGRFALETRASPGHTPGCV TFVLNDQSMAFTGDALLIRGCGRTDFQQGCAKTLYHSVHEKIFTLPGNCLIYPAHDYHGLTVSTVEEERT LNPRLTLSCEEFIKVMDNLNLPKPQQIDIAVPANMRCGVQTPPS TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-MYC/DDK
Predicted MW:	27.7 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_075643
Locus ID:	66071
UniProt ID:	Q9DCM0
RefSeq Size:	1497

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Cytogenetics:	7 A3
RefSeq ORF:	762
Synonyms:	0610025L15Rik; Hsco
Summary:	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 (By similarity). 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.[UniProtKB/Swiss-Prot Function]