



# Recombinant Human Protein ETHE1, mitochondrial (ETHE1)

<b>Product Code</b>	CSB-EP007847HU
<b>Relevance</b>	Sulfur dioxygenase that plays an essential role in hydrogen sulfide catabolism in the mitochondrial matrix. Hydrogen sulfide (H <sub>2</sub> 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 <sub>2</sub> S levels that have toxic effects, due to the inhibition of cytochrome c oxidase. 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 .
<b>Abbreviation</b>	Recombinant Human ETHE1 protein
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	O95571
<b>Alias</b>	Ethylmalonic encephalopathy protein 1Hepatoma subtracted clone one protein;Sulfur dioxygenase ETHE1
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	VARRQLSQRGSGAPILLRQMFEPVSCTFTYLLGDRESREAVLIDPVLETAPR DAQLIKELGLRLLYAVNTHCHADHITGSGLLRSLLPGCQSVISRLSGAQADLHIE DGDSIRFGRFALETRASPGHTPGCVTFVLNDHSMFTGDALLIRGCGRTDFQQ GCAKTLYHSVHEKIFTLPDCLIPAHDYHGFTVSTVEEERTLNPRLTLSCEEF VKIMGNLNLPKPQQIDFAVPANMRCGVQTPTA
<b>Research Area</b>	Cell Biology
<b>Source</b>	E.coli
<b>Target Names</b>	ETHE1
<b>Protein Names</b>	Recommended name: Protein ETHE1, mitochondrial EC= 3.-.- Alternative name(s): Ethylmalonic encephalopathy protein 1 Hepatoma subtracted clone one protein
<b>Expression Region</b>	8-254aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

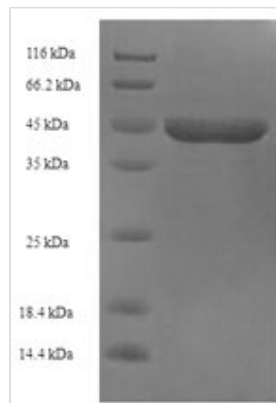


**Tag Info** N-terminal 6xHis-SUMO-tagged

**Mol. Weight** 43.1kDa

**Protein Length** Full Length of Mature Protein

**Image**



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

**Shelf Life**

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