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Datasheet for ABIN5709487

## ETHE1 Protein (AA 8-254) (His-SUMO Tag)

### 1 Image

#### Overview

Quantity:	100 µg
Target:	ETHE1
Protein Characteristics:	AA 8-254
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ETHE1 protein is labelled with His-SUMO Tag.
Application:	SDS-PAGE (SDS)

#### Product Details

Sequence:	VARRQLSQRG GSGAPILLRQ MFEPVSCTFT YLLGDRESRE AVLIDPVLET APRDAQLIKE LGLRLLYAVN THCHADHITG SGLLRSL LPG CQSVISRLSG AQADLHIEDG DSIRFGRFAL ETRASP GHTP GCVTFVLNDH SMAFTGDALL IRGCGRTDFQ QGCAKTYHS VHEKIFTLPG DCLIYPAHDY HGFTVSTVEE ERTLNPRLTL SCEEFVKIMG NLNLPKPQI DFAVPANMRC GVQTPTA
Purification:	SDS-PAGE
Purity:	> 90 %

#### Target Details

Target:	ETHE1
Alternative Name:	ETHE1 ( <a href="#">ETHE1 Products</a> )

## Target Details

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**Background:** 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 .

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**Molecular Weight:** 43.08 kDa

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**UniProt:** [O95571](#)

## Application Details

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**Application Notes:** Optimal working dilution should be determined by the investigator.

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**Restrictions:** For Research Use only

## Handling

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**Format:** Liquid

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**Concentration:** 0.1-2 mg/mL

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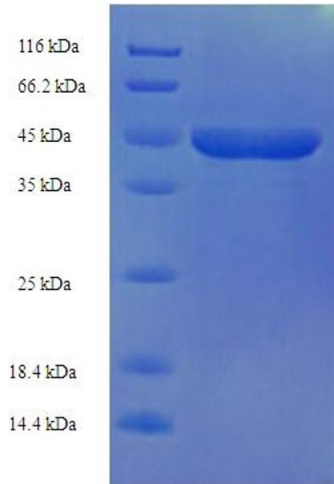
**Buffer:** 20 mM Tris-HCl based buffer, pH 8.0

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**Storage:** -80 °C, 4 °C, -20 °C

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**Storage Comment:** Store at -20°C, for extended storage, conserve at -20°C or -80°C. Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.



### SDS-PAGE

Image 1.