

Recombinant Human GFM1 protein, His & T7-tagged

Cat. No. GFM1-7826H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GFM1 aa. (Met1~Val158 (Accession # Q96RP9)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Met1~Val158
Description	Eukaryotes contain two protein translational systems, one in the cytoplasm and one in the mitochondria. Mitochondrial translation is crucial for maintaining mitochondrial function and mutations in this system lead to a breakdown in the respiratory chain-oxidative phosphorylation system and to impaired maintenance of mitochondrial DNA. This gene encodes one of the mitochondrial translation elongation factors. Its role in the regulation of normal mitochondrial function and in different disease states attributed to mitochondrial dysfunction is not known.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 20.9kDa.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%

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Characteristic	The isoelectric point is 9.5.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage Buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	GFM1 G elongation factor mitochondrial 1 [Homo sapiens (human)]
Official Symbol	GFM1
Synonyms	ARG2; arginase-2, mitochondrial; arginase, type II; type II arginase
Gene ID	85476
mRNA Refseq	NM_001308164.1
Protein Refseq	NP_001295093.1

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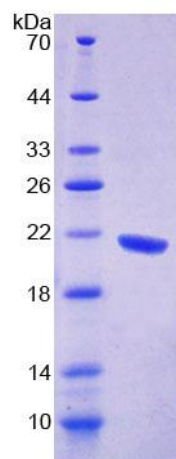
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UniProt ID

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SDS-PAGE

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