

Recombinant Human GFM1, His-tagged

Cat. No. GFM1-28742TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 532-751 of Human GFM1 with N terminal His tag; Predicted MWt 25 kDa.
Species	Human
Source	E.coli
ProteinLength	532-751 a.a.
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.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 55 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

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Sequences of amino acids

PVPFDFTHKKQSGGAGQYGKVGIVLEPLDPEDYTKLEFSD ETFGSNIPKQFVPAVE
 KGFLDACEKGPLSGHKLSGLRF VLQDGAHHMVDSEISFIRAGEGALKQALANATL
 CILE PIMAVEVVAPNEFQGQVIAGINRRHGVITGQDGVEDYF TLYADVPLNDMFGYS
 TELRSCTEGKGEYTMESRYQPCLP STQEDVINKYLEATGQLPVKKGKAKN

GENE INFORMATION

Gene Name [GFM1 G elongation factor, mitochondrial 1 \[Homo sapiens \]](#)

Official Symbol [GFM1](#)

Synonyms GFM1; G elongation factor, mitochondrial 1; G translation elongation factor, mitochondrial; elongation factor G, mitochondrial; EFGM; EGF1; GFM;

Gene ID [85476](#)

mRNA Refseq [NM_024996](#)

Protein Refseq [NP_079272](#)

MIM [606639](#)

Uniprot ID [Q96RP9](#)

Chromosome Location 3q25

Function GTP binding; GTPase activity; nucleotide binding; translation elongation factor activity; translation elongation factor activity;

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