

Recombinant Human GFM2 protein, His & T7-tagged

Cat. No. GFM2-1731H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human GFM2 aa. (Asn570~Thr779 (Accession # Q969S9)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Asn570~Thr779
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, which is a GTPase that plays a role at the termination of mitochondrial translation by mediating the disassembly of ribosomes from messenger RNA . Its role in the regulation of normal mitochondrial function and in disease states attributed to mitochondrial dysfunction is not known. Alternative splicing results in multiple transcript variants encoding distinct isoforms.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 26.6kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL method)

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Purity	>90%
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate. 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. The loss rate 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 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.
Reconstitution	Reconstitute in sterile ddH2O.
Isoelectric Point	5.6

GENE INFORMATION

Gene Name	GFM2 G elongation factor mitochondrial 2 [Homo sapiens (human)]
Official Symbol	GFM2
Synonyms	GFM2; G elongation factor mitochondrial 2; EFG2; RRF2; MRRF2; hEFG2; MST027; RRF2mt; EF-G2mt; MSTP027; mEF-G 2; ribosome-releasing factor 2, mitochondrial; mitochondrial elongation factor G2; mitochondrial ribosome recycling factor 2
Gene ID	84340

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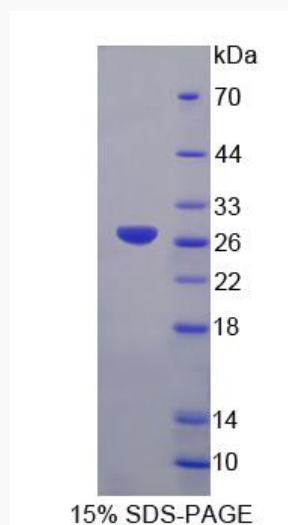
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mRNA Refseq NM_032380.4

Protein Refseq NP_115756.2

UniProt ID Q969S9

SDS-PAGE



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