



# Recombinant Human Elongation factor G, mitochondrial (GFM1)

<b>Product Code</b>	CSB-EP836294HU-B
<b>Abbreviation</b>	GFM1
<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>	Q96RP9
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	SSSGV IPNEKIRNIG ISAHIDSGKT TLTERVLYYT GRIAKMHEVK GKDGVGAVMD SMELERQRGI TIQSAATYTM WKDVNINIID TPGHVDFTIE VERALRVLDG AVLVLCAVGG VQCQTMTVNR QMKRYNVPFL TFINKLDRMG SNPARALQQM RSKLNHNAAF MQIPMGLEGN FKGIVDLIEE RAIYFDGDFG QIVRYGEIPA ELRAAADHR QELIECVANS DEQLGEMFLE EKIPSISDLK LAIRRATLKR SFTPVFLGSA LKNKGVQPLL DAVLEYLPNP SEVQNYAILN KEDDSKEKTK ILMNSSRDNS HPFVGLAFKL EVGRFGQLTY VRSYQGELKK GDTIYNTRTR KKVRLQLRLAR MHADMMEDVE EVYAGDICAL FGIDCASGDT FTDKANSGLS MESIHVPDPV ISIAMKPSNK NDLEKFSKGI GRFTREDPTF KVYFDTENKE TVISGMGELH LEIYAQRLER EYGCPCITGK PKVAFRETIT APVPPDFTHK KQSGGAGQYG KVIGVLEPLD PEDYTKLEFS DETFGSNIPK QFVPAVEKGF LDACEKGPLS GHKLSGLRFV LQDGAHHMVD SNEISFIRAG EGALKQALAN ATLCILEPIM AVEVVAPNEF QGQVIAGINR RHGVITGQDG VEDYFTLYAD VPLNDMFGYS TELRSCTEGK GEYTMESRY QPCLPSTQED VINKYLEATG QLPVKKGKAK N
<b>Source</b>	E.coli
<b>Target Names</b>	GFM1
<b>Protein Names</b>	Recommended name: Elongation factor G, mitochondrial Short name= EF-Gmt Alternative name(s): Elongation factor G 1, mitochondrial Short name= mEF-G 1 Elongation factor G1 Short name= hEFG1
<b>Expression Region</b>	36-751
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	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.

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**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.

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**Shelf Life**

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