

Recombinant Human TSFM

Cat. No. TSFM-198H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	TSFM, 46-346aa, Human, E.coli
Species	Human
Source	E.coli
ProteinLength	46-346aa
Description	TSFM is a mitochondrial translation elongation factor. It is an enzyme that catalyzes the exchange of guanine nucleotides on the translation elongation factor Tu during the elongation step of mitochondrial protein translation. Mutations in TSFM are associated with combined oxidative phosphorylation deficiency-3 syndrome. Alternate splicing results in multiple transcript variants. Recombinant human TSFM protein, fused to His-tag at N-terminus, was expressed in E.coli.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 0.4M Urea
Molecular Mass	32.9 kDa(302aa)
AA Sequence	MSKELLMKLR RKTGYSFVNC KKALETGGD LKQAEIWLHK EAQKEGWSKA AKLQGRKTKE GLIGLLQEGN TTVLVEVNCE TDFVSRNLKF QLLVQQVALG TMMHCQTLKD QPSAYSKVQW LTPVNLALWE AEAGGSLEGF LNSSELSGLP AGPDREGSLK DQLALAIGKL GENMILKRAA WVKVPSGFYV GSYVHGAMQS PSLHKLVLGK YGALVICETS EQKTNLEDVG RRLGQHVVGM APLSVGSLDD EPGGEAETKM LSQPYLLDPS ITLGQYVQPQ GVSVDVFRF ECGEGEEAAE TE

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Purity	>85% by SDS - PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	1mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name	TSFM Ts translation elongation factor, mitochondrial [Homo sapiens]
Official Symbol	TSFM
Synonyms	TSFM; Ts translation elongation factor, mitochondrial; elongation factor Ts, mitochondrial; EF TS; EF Tsmt; mitochondrial elongation factor Ts; EFTS; EFTSMT;
Gene ID	10102
mRNA Refseq	NM_001172695
Protein Refseq	NP_001166166
MIM	604723
UniProt ID	P43897
Chromosome Location	12q14.1
Function	translation elongation factor activity;

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