

**TSMF, 46-346aa, Human, E.coli**

**Cat.NO.: TP04320**

3th Edition

**Synonyms:** Ts translation elongation factor, mitochondrial , COXPD3, EF-TS, EF-Tsmt

**Description:** TSMF 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 TSMF are associated with combined oxidative phosphorylation deficiency-3 syndrome. Alternate splicing results in multiple transcript variants. Recombinant human TSMF 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 Weight:** 32.9 kDa(302aa)

**Sequences:**

MSKELLMKLRRTGYSFVNCKKALETCCGGDLKQAEIWLHKEAQKEGWSKAAKLQGRKTKEGLIGLLQEGNTTVLV  
EVCNCFDFVSRNLKFQLLVQQVALGTMHCQTLKDQPSAYSQVQWLTPVNLALWEAEAGGSLEGFLNSSELSGLP  
AGPDREGSLKDQLALAIGKLGEMILKRAAWVKVPSGFYVGSYVHGAMQSPSLHKLVLGKYGALVICETSEQKTNL  
EDVGRRLGQHVVGMAPLSVGSLLDDEPGGEAETKMLSQPYLLDPSITLGQYVQPQGVSVVDFVRFECGEGEEAAE  
TE

**Purity:** > 95% by HPLC

**Concentration:** 1mg/ml (determined by Bradford assay)

**Endotoxin Level:** <1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.