Recombinant human TSFM protein
Catalog Number: ATGP2691

PRODUCT INFORMATION

Expression system
E.coli

Domain
46-346aa

UniProt No.
P43897

NCBI Accession No.
NP_005717.2

Alternative Names
Ts translation elongation factor mitochondrial, Ts translation elongation factor, mitochondrial, COXPD3, EF-TS, EF-Tsmt

PRODUCT SPECIFICATION

Molecular Weight
32.9 kDa (302aa)

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 0.4M urea

Purity
> 85% by SDS-PAGE

Tag
Non-Tagged

Application
SDS-PAGE,Denatured

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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 mitchondrial 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.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.
Website: www.nkmaxbio.com   email: supportbio@nkmax.com
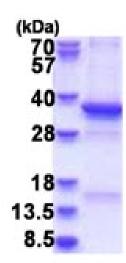
1

NKMAX

Amino acid Sequence

MSKELLMKLR RKTGYSFVNC KKALETCGGD 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 GVSVVDFVRF ECGEGEEAAE TE

General References

Xin H. et al. (1995) J Biol Chem. 270:17243-17249.
Smeitink JA. et al. (2006) Am. J. Hum. Genet. 79:869-877.

DATA

SDS-PAGE

15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.