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TSFM Human

Ts Translation Elongation Factor Mitochondrial Human Recombinant
RCP2458

Product Overview

Name	TSFM Human

Description

Ts Translation Elongation Factor Mitochondrial Human Recombinant

Accession (Primary)	P43897

Synonyms

Elongation factor Ts, mitochondrial, Ts Translation Elongation Factor Mitochondrial, TSFM, EF-Ts, EF-TsMt, COXPD3.

Introduction

TSFM is a mitochondrial translation elongation factor which is linked with the EF-Tu.GDP complex and induces the exchange of GDP to GTP. TSFM stays bound to the aminoacyl-tRNA.EF-Tu.GTP complex until the GTP hydrolysis stage on the ribosome. Mutations in TSFM are related with combined oxidative phosphorylation deficiency-3 syndrome.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered colorless solution.

Formulation

TSFM protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 10% glycerol and 0.4M Urea.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Purity

Greater than 85.0% as determined by SDS-PAGE.

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.

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Precautions

TSFM Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P43897)