

THOC7, 1-204aa, Human, His tag, E.coli

Cat.NO.: TP04207

3th Edition

Synonyms:THO complex subunit 7 homolog, fSAP24, hTREX30, NIF3L1BP1

Description:THOC7 is required for efficient export of polyadenylated RNA. This protein acts as component of the THO subcomplex of the TREX complex which is thought to couple mRNA transcription, processing and nuclear export, and which specifically associates with spliced mRNA and not with unspliced pre-mRNA. TREX is recruited to spliced mRNAs by a transcription-independent mechanism, binds to mRNA upstream of the exon-junction complex (EJC) and is recruited in a splicing- and cap-dependent manner to a region near the 5' end of the mRNA where it functions in mRNA export to the cytoplasm via the TAP/NFX1 pathway. The TREX complex is essential for the export of Kaposi's sarcoma-associated herpesvirus (KSHV) intronless mRNAs and infectious virus production. Recombinant human THOC7 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

Form:Liquid. In Phosphate buffered saline (pH7.4) containing, 50% glycerol, 1mM DTT

Molecular Weight:26.1kDa (227aa) confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMGSMGAVTDDEVIRKRLIDGDGAGDDRRINLLVKSFIKWCNSGSQEEGYSQYQ
RMLSTLSQCEFSMGKTLVYDMNLREMEYKIKYKEIECSIAGAHEKIAECKKQILQAKRIRKNRQEYDALAKVIQHH
PDRHETLKELEALGKELEHLSHIKESVEDKLELRKQFHVLLSTIHELQQTLENDEKLSEVEEAQEASMETDPKP

Purity:> 95% by HPLC

Concentration:0.5 mg/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.