

Recombinant human THOC7 protein

Catalog Number: ATGP2943

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-204aa

UniProt No.

Q6I9Y2

NCBI Accession No.

NP_079351

Alternative Names

THO complex subunit 7 homolog, fSAP24, hTREX30, NIF3L1BP1

PRODUCT SPECIFICATION

Molecular Weight

26.1 kDa (227aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing, 50% glycerol, 1mM DTT

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

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

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

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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.

Amino acid Sequence

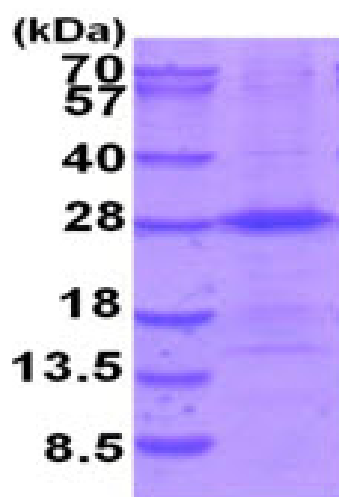
<MGSSHHHHHH SSGLVPRGSH MGS>MGAVTDD EVIRKRLID GDGAGDDRRRI NLLVKSFIKW CNSGSQEEGY
SQYQRMLSTL SQCEFSMGKT LLVYDMNLRE MENYEKIYKE IECSIAGAHE KIAECKKQIL QAKRIRKNRQ EYDALAKVIQ
HHPDRHETLK ELEALGKELE HLSHIKESVE DKLELRRKQF HVLLSTIHEL QQTLENDEKL SEVEEAQEAS METDPKP

General References

El Bounkari O., et al. (2009) FEBS Lett. 583 (1), 13-18

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)