Recombinant human TCEA1 protein

Catalog Number: ATGP1534

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-301aa

UniProt No.
P23193

NCBI Accession No.
NP_006747

Alternative Names
Transcription elongation factor A protein 1, GTF2S, SII, TCEA, TF2S, TFIIS

PRODUCT SPECIFICATION

Molecular Weight
36.5 kDa (325aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 20% glycerol, 1mM DTT, 50mM NaCl

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
TCEA1 (Transcription elongation factor A protein 1) belongs to the TFS-II family. TCEA1 binds to Pol II and functions to cleave the nascent transcript, thereby unlocking the complex and allowing transcription to continue. Localized to the nucleus, TCEA1 contains three independently-folding domains, all of which are necessary for proper binding to Pol II. The arresting sites in DNA have the property of trapping a certain fraction of elongating RNA polymerases that pass through, resulting in locked ternary complexes. Cleavage of the nascent transcript by S-II allows the resumption of elongation from the new 3'-terminus. Recombinant human TCEA1 protein, fused

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to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

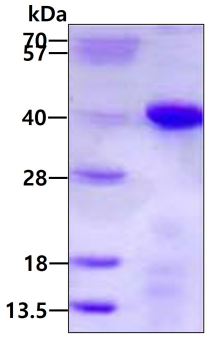
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General References

Kulish, D. et al. (2001) Mol. Cell. Biol. 21: 4162-4168.
Park H, et al. (1994) Gene 139 (2): 263-7.

DATA

SDS-PAGE



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