

Recombinant Human Transcription Elongation Factor A (SII), 1, His-tagged

Cat. No. TCEA1-6769H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human TCEA1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
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.
Form	Liquid. In 20 mM Tris-HCl buffer, pH 7.5, 20% glycerol, 1mM DTT, 50mM NaCl
Molecular Weight	36.5kDa (325aa), confirmed by MALDI-TOF
Purity	> 90% by SDS-PAGE
Concentration	1mg/ml (determined by Bradford assay)

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Sequences of aminoacids

MGSSHHHHHHSSGLVPRGSH MGSMEDEVV RFAKKMDKMV QKKNAAGALD
 LLKELKNIPM TLELLQSTRI GMSVNAIRKQSTDEEVTS LA KSLIKSWKKL
 LDGPSTEKDL DEKKKEPAIT SQNSPEAREE STSSGNVSNR
 KDETNRADTYVSSFPRAPST SDSVRLKCRE MLAAALRTGD DYIAIGADEE
 ELGSQIEEAI YQEIRNTDMK YKNRVRSRISNLKDAKNPNL RKNVLCGNIP
 PDLFARMTAE EMASDELKEM RKNLTKEAIR EHQMAKTGGT
 QTDLFTCGKCKKKKNCTYTQV QTRSADEPMT TFVVCNECGN RWKFC

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.

GENE INFORMATION
Gene Name

TCEA1transcription elongation factor A (SII), 1 [Homo sapiens]

Official Symbol

TCEA1

Synonyms

TCEA1; transcription elongationfactor A (SII), 1; GTF2S, TCEA; transcription elongation factor A protein 1;SII; TF2S; TFIIIS

Gene ID

6917

mRNA Refseq

NM_006756

Protein Refseq

NP_006747

MIM

601425

Uniprot ID

P23193

Chromosome

8q11.2

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Location	
Pathway	DNA Repair, organism-specific biosystem; Dual incision reaction in TC-NER, organism-specific biosystem; Formation and Maturation of mRNA Transcript, organism-specific biosystem; Formation of HIV-1 elongation complex containing HIV-1 Tat, organism-specific biosystem; Formation of HIV-1 elongation complex in the absence of HIV-1 Tat, organism-specific biosystem
Function	DNA binding; metal ion binding; translation elongation factor activity; zinc ion binding
PDB rendering based on 1tfi	