

**TCEA1, 1-301aa, Human, His tag, E.coli**

**Cat.NO.: TP04161**

3th Edition

**Synonyms:**Transcription elongation factor A protein 1, GTF2S, SII, TCEA, TF2S, TFIS

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

**Form:**Liquid. In 20 mM Tris-HCl buffer, pH7.5, 20% glycerol, 1mM DTT, 50mM NaCl

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

**Sequences:**

MGSSHHHHHSSGLVPRGSHMGSHMEDEVVRFakkMDKMVQKKNAAGALDLLKELKNIPMTLELLQSTRIGMSV  
NAIRKQSTDEEVTSLAKSLIKSWKKLLDGPSTeKDLDEKKKEPAITSQNSPEAREESTSSGNVSNRKDETnARDTYV  
SSFPRAPSTSDSVRLKCREMLAAALRTGDDYIAIGADEEELGSQIEEAIYQEIRNTDMKYKNRVRSRISNLKDAKNPN  
LRKNVLCGNIPDLFARMTAEEMASDELKEMRKNLTKEAIREHQMAKTGGTQTDLFTCGKCKKKNCTYTQVQTRS  
ADEPMTTFVVCNECGNRWKFC

**Purity:**> 95% by HPLC

**Concentration:**1mg/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.