
Product Data Sheet

Product Name: TCEA1 Human
 Cat. No.: GP24790
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Transcription elongation factor A (SII) 1; Transcription elongation factor TFIIS.o; TCEA; GTF2S; SII; TF2S.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMEDEVV RFAKKMDKMV QKNAAGALD LLKELKNIPM TLELLQSTRI GMSVNAIRKQ STDEEVTSLA KSLIKSWKKL LDGPSTEKDL DEKKKEPAIT SQNSPEAREE STSSGNVSNR KDETNRADTY VSSFPRAPST SDSVRLKCRE MLAAALRTGD DYIAIGADEE ELGSQIEEAI YQEIRNTDMK YKNRVRSRIS NLKDAKNPNL RKNVLCGNIP PDLFARMTAE EMASDELKEM RKNLTKEAIR EHQMAKTGGT QTDLFTCGKC KKKNCTYTQV QTRSADEPMT TFVVCNECGN RWKFC		
Formulation	The TCEA1 solution (1mg/1ml) contains 20mM Tris-HCl buffer (pH 7.5), 1mM DTT, 50mM NaCl and 20% glycerol.		

Introduction

TCEA1 is a member of the TFS-II family. TCEA1 binds to Pol II and operates to cleave the emerging transcript, thus unlocking the complex and permitting transcription to continue. TCEA1 is localized to the nucleus and holds three independently-folding domains that are essential for accurate binding to Pol II. The arresting sites in are able to trap a certain segment of elongating RNA polymerases that goes through, causing in a locked ternary complex. Cleavage of the emerging transcript by S-II enables the renewal of elongation from the new 3'-terminus.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Background

TCEA1 Human Recombinant produced in E. coli is a single polypeptide chain containing 325 amino acids (1-301) and having a molecular mass of 36.5kDa. TCEA1 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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