
Product Data Sheet

Product Name: TEF Human
 Cat. No.: GP24801
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Thyrotroph embryonic factor; TEF; Thyrotroph embryonic factor isoform 1.FBG2; FBS2; FBX6; Fbx6b; F-box only protein 6; F-box protein that recognizes sugar chains 2; F-box/G-domain protein 2; FBXO6.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMSDAGGG KKPPVDPQAG PGPGPGRAAG ERGLSGSFPL VLKMLMENPP REARLDKEKG KEKLEEDEAA AASTMAVSAS LMPPIWDKTI PYDGESFHLE YMDLDEFLE NGIPASPTHL AHNLLLPVAE LEGKESASSS TASPSSSTA IFQPSETVSS TESSLEKERE TPSPIDPNCV EVDVNFNPDP ADLVLSSVPG GELFNPRKHK FAEEDLKPQP MIKKAKKV FV PDEQKDEKYW TRRKKNVAA KRSRDARRLK ENQITIRAAF LEKENTALRT EVAELRKEVG KCKTIVSKYE TKYGPL.		
Formulation	The TEF solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0) and 10% glycerol.		

Introduction

Thyrotroph embryonic factor (TEF) is a nuclear transcription factor which is a part of the bZIP (basic region/leucine zipper) family and PAR subfamily. TEF binds DNA as either a homodimer or heterodimer, and is known to transactivate the TSH beta promoter. TEF accumulates according to a robust circadian rhythm and is also inhibits cell growth by down-regulating beta chain expression of cytokine receptors.

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.

Background

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

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TEF Human Recombinant produced in E. coli is a single polypeptide chain containing 326 amino acids (1-303) and having a molecular mass of 35.6kDa. TEF is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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