

Recombinant Human thyrotrophic embryonic factor, His-tagged

Cat. No. TEF-216H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	TEF, 1-303aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-303 a.a.
Description	Thyrotroph embryonic factor isoform 1, also known as TEF, is a 303 amino acid nuclear transcription factor that belongs to the bZIP (basic region/leucine zipper) family and PAR (proline and acidic amino acid-rich) 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 has also been found to inhibit cell growth by down-regulating beta chain expression of cytokine receptors. Recombinant human TEF protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol
Molecular Mass	35.6kDa (326aa), confirmed by MALDI-TOF(Molecular size on SDS-PAGE will appear higher)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGMSDAGGG KKPPVDPQAG PGPGPGRAAG ERGLSGSFPL VLKKLMENPP REARLDKEKG KEKLEEDEAA AASTMAVSAS

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LMPPIWDKTI PYDGESFHLE YMDLDEFLL E NGIPASPTHL AHNLLLPVAE
 LEGKESASSS TASPSSSTA IFQPSETVSS TESSLEKERE TPSPIDPNCV
 EVDVNFNPDP ADLVLSVPG GELFNPRKHK FAEEDLKPQP MIKKAKKV FV
 PDEQKDEKYW TRRKNNVAA KRSRDARRLK ENQITIRAAF LEKENTALRT
 EVAELRKEVG KCKTIVSKYE TKYGPL

Purity >85% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 0.25 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name TEF thyrotrophic embryonic factor [Homo sapiens]

Official Symbol TEF

Synonyms TEF; thyrotrophic embryonic factor; thyrotroph embryonic factor; KIAA1655;

Gene ID 7008

mRNA Refseq NM_001145398

Protein Refseq NP_001138870

MIM 188595

UniProt ID Q10587

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Chromosome Location	22q13.2
Function	double-stranded DNA binding; protein heterodimerization activity; protein homodimerization activity; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity;

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