Recombinant human TEF protein

Catalog Number: ATGP2170

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-303aa

UniProt No.
Q10587

NCBI Accession No.
NP_003207

Alternative Names
Thyrotroph embryonic factor isoform 1, KIAA1655, Thyrotroph embryonic factor

PRODUCT SPECIFICATION

Molecular Weight
35.6 kDa (326aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

Concentration
0.25mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

Purity
> 85% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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.

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Amino acid Sequence

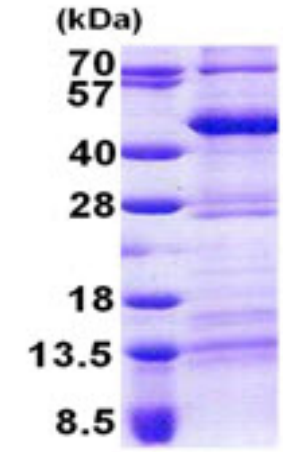
MGSSHHHHHH SSGLVPRGSH MGSMSDAGGG KKPPVDPQAG PGPGPGRAAG ERGLSGSFPL VLKKLMENPP REARLDKEKG KEKLEEDEAA AASTMAVSAS LMPPIWDKTI PYDGESFHLE YMDLDEFLLE NGIPASPTHL AHNLLLPVAE LEGKESASSS TASPPSSSTA IFQPSETVSS TESSLEKERE TPSPIDPNCV EVDVNFNPDP ADLVLSSVPG GELFNPRKHK FAEEDLKPQP MIKKAKKVFV PDEQKDEKYW TRRKKNNVAA KRSRDARRLK ENQITIRAAF LEKENTALRT EVAELRKEVG KCKTIVSKYE TKYGPL

General References

Khatib Z A., et al. (1994) Genomics. 23:344-351
Drolet D W., et al. (1991) Genes Dev. 5:1739-1753.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.