Recombinant mouse TGF-beta 1 protein

Catalog Number: ATGP2918

PRODUCT INFORMATION

Expression system
E.coli

Domain
279-390aa

UniProt No.
P04202

NCBI Accession No.
NP_035707

Alternative Names
Transforming growth factor beta-1, Transforming growth factor beta-1, TGF-beta1, Tgfb, Tgfb-1, TGFbeta1

PRODUCT SPECIFICATION

Molecular Weight
15.2 kDa (135aa)

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,Denatured

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
Members of the Transforming growth factor beta (TGFB) family of cytokines are multifunctional peptides that regulate proliferation, differentiation, adhesion, migration, and other functions in many cell types. Many cells have TGFB receptors, and the protein positively and negatively regulates many other growth factors. The secreted protein is cleaved into a latency-associated peptide (LAP) and a mature TGFB1 peptide, and is found in either a latent form composed of a TGFB1 homodimer, a LAP homodimer, and a latent TGFB1-binding protein, or in an active form composed of a TGFB1 homodimer. The mature peptide may also form heterodimers with other

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TGFB family members. TGFB1 is frequently upregulated in tumor cells, and mutations in this gene result in Camurati-Engelmann disease. Recombinant mouse TGFB1 protein, fused to His-tag at N-terminus, was expressed in E. coli.

Amino acid Sequence

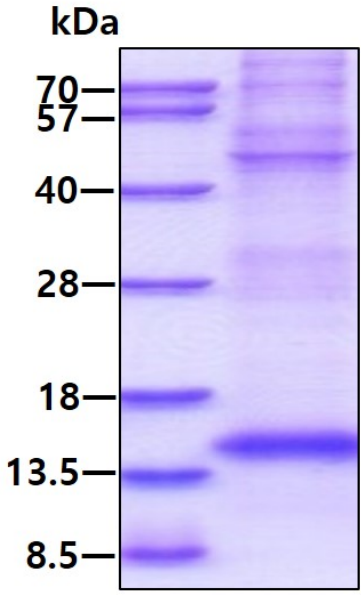
<MGSSHHHHHH SSGLVPRGSH MGS>ALDTNYC FSSTEKNCCV RQLYIDFRKD LGWKWIHEPK GYHANFCLGP CPYIWSLDTQ YSKVLALYNQ HNPGASASPC CVPQALEPLP IVYYVGRKPK VEQLSNMIVR SCKCS

General References

Assoian RK, Komoriya A, et al. (1983). J Biol Chem. 258(11):7155-60.
Choy L, et al. (1998). J Biol Chem. 273(47):31455-62.

DATA

SDS-PAGE



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