

# Recombinant mouse TGF-beta 1 protein

Catalog Number: ATGP2918

## PRODUCT INFORMATION

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### 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

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### 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

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### 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 HNP GASASPC 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.

