

AR51738PU-N

Mouse TGFB1 (279-390, His-tag) - Purified

Alternate names:

TGF-beta-1, TGFB, Transforming growth factor beta-1

Quantity:

0.25 mg

Concentration:

0.25 mg/ml (determined by Bradford assay)

Background:

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 TGFB family members. TGFB1 is frequently upregulated in tumor cells, and mutations in this gene result in Camurati-Engelmann disease.

Uniprot ID:

[P04202](#)

NCBI:

[NP_035707](#)

GeneID:

[21803](#)

Species:

Mouse

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >85% by SDS - PAGE

Buffer System: 20 mM Tris-HCl (pH 8.0) containing 10% glycerol.

Description:

Recombinant mouse TGFB1 protein, fused to His-tag at N-terminus, was expressed in E.coli.

AA Sequence:

MGSSHHHHHH SGLVPRGSH MGSALDTNYC FSSTEKNCCV RQLYIDFRKD LGWKWIHEPK
GYHANFCLGP CPYIWSLDTQ YSKVLALYNQ HNPQASAPC CVPQALEPLP IVYVVGKPKK
VEQLSNMIVR SCKCS

Molecular weight: 15 kDa (135aa)

Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

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.

Pictures:

