



Recombinant human TGF-Beta 1 protein, C-His

Catalog Number: bs-41200P Concentration: >0.5 mg/ml

AA Seq: 279-390/390

Predicted MW: 12

Detected MW: 13 kDa

Tags: C-His

Activity: Not tested Endotoxin: Not analyzed

. Not analyzed

Purity: >95% as determined by SDS-PAGE

Purification: AC

Form: Lyophilized or Liquid

Storage: 20mM Tris-HCl (pH8.0) with 150mM NaCl and 50mM L-Arginine.

Stored at -70°C or -20°C. Avoid repeated freeze/thaw cycles.

Background: This gene encodes a member of the transforming growth factor beta (TGFB) family of

 $cytokines, which are \ multifunctional\ peptides\ that\ regulate\ proliferation,\ differentiation,$

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 $\,$

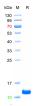
 $homodimer, and a \ latent \ TGFB1-binding \ protein, or \ in \ an \ active \ form \ composed \ of \ a \ TGFB1$

homodimer. The mature peptide may also form heterodimers with other TGFB family

members. This gene is frequently upregulated in tumor cells, and mutations in this gene

result in Camurati-Engelmann disease.

VALIDATION IMAGES



The purity of the protein is greater than 90% as determined by reducing SDS-PAGE.

PRODUCT SPECIFIC PUBLICATIONS

[IF=5.6] Haiyan Zheng. et al. Tilapia (Oreochromis niloticus) oligopeptide TBP-1 inhibits hepatocellular carcinoma metastasis by suppressing inflammation and epithelial-mesenchymal transition. J FUNCT FOODS. 2024 Feb;113:106020 Other; . 10.1016/j.jff.2024.106020

[IF=4.9] Siyu Ren. et al.TGF-β1 Mediates Novel-m0297-5p Targeting WNT5A to Participate in the Proliferation of Ovarian Granulosa Cells in Small-Tailed Han Sheep..INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES.2025 Feb 24;26(5):1961. Cell culture; Sheep . 40076587

[IF=2.8] Mingna Li. et al. Transforming growth factor-β1 mediates the SMAD4/BMF pathway to regulate ovarian granulosa cell apoptosis in small tail Han sheep. THERIOGENOLOGY. 2023 Nov;: Other; . 37979327

[IF=2.4] Mingna Li. et al. RNA-seq analysis of the biological process and regulatory signal of TGF-β1-mediated changes in ovarian granulosa cells in small-tail Han sheep. THERIOGENOLOGY. 2025 Mar;234:9; . 39631254