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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
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