

Recombinant Bovine transforming growth factor beta 3 Protein, His tagged

Cat. No. TGFB3-32B Lot. No. (See product label)

SPECIFICATION

Product Overview	DNA sequence encoding Bovine TGFB3 sp (A6QP91, 341-452aa) including a C terminal His tag was expressed in HEK293 cells.
Species	Bovine
Source	HEK293
ProteinLength	341-452aa
Description	This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate a latency-associated peptide (LAP) and a mature peptide, and is found in either a latent form composed of a mature peptide homodimer, a LAP homodimer, and a latent TGF-beta binding protein, or in an active form consisting solely of the mature peptide homodimer. The mature peptide may also form heterodimers with other TGF-beta family members. This protein is involved in embryogenesis and cell differentiation, and may play a role in wound healing. Mutations in this gene are a cause of aortic aneurysms and dissections, as well as familial arrhythmogenic right ventricular dysplasia 1.
Tag	C-His

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Bio-activity	The ED(50) was determined by the ability to inhibit the proliferation of mouse HT-2 cells 0.05-0.1 ng/mL, corresponding to a specific activity of 2×10^7 units/mg.
Molecular Mass	13-15 kDa
Endotoxin	Endotoxin content was assayed using a LAL gel clot method. Endotoxin level was found to be less than 0.1 ng/μg (1 EU/μg).
Purity	> 95%, as determined by SDS-PAGE and HPLC
Usage	This product is for research purposes only. It may not be used for therapeutics or diagnostic purposes.
Storage	The lyophilized protein is stable for at least 2 years from date of receipt at -20 centigrade.
Storage Buffer	Lyophilized from 0.2 μm filtered PBS solution pH7.4
Reconstitution	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.

GENE INFORMATION

Gene Name	TGFB3 transforming growth factor beta 3 [Bos taurus (cattle)]
Official Symbol	TGFB3
Synonyms	TGFB3; transforming growth factor beta 3; transforming growth factor beta-3 proprotein
Gene ID	538957

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mRNA Refseq	NM_001101183
Protein Refseq	NP_001094653
UniProt ID	A6QP91

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