

## 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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<b>Bio-activity</b>	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 $2 \times 10^7$ units/mg.
<b>Molecular Mass</b>	13-15 kDa
<b>Endotoxin</b>	Endotoxin content was assayed using a LAL gel clot method. Endotoxin level was found to be less than 0.1 ng/ $\mu$ g (1 EU/ $\mu$ g).
<b>Purity</b>	> 95%, as determined by SDS-PAGE and HPLC
<b>Usage</b>	This product is for research purposes only. It may not be used for therapeutics or diagnostic purposes.
<b>Storage</b>	The lyophilized protein is stable for at least 2 years from date of receipt at -20 centigrade.
<b>Storage Buffer</b>	Lyophilized from 0.2 $\mu$ m filtered PBS solution pH7.4
<b>Reconstitution</b>	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

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

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mRNA Refseq [NM\\_001101183](#)

Protein Refseq [NP\\_001094653](#)

UniProt ID [A6QP91](#)

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