Recombinant Bovine TGFB1 Protein (279-390 aa), His-tagged

Cat. No. TGFB1-829B **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Bovine TGFB1 Protein (279-390 aa) is produced by E. coli expression system. This protein is fused with a 6xHis tag at the N-terminal. Protein Description: Partial.
Species	Bovine
Source	E.coli
ProteinLength	279-390 aa
Description	Multifunctional protein that controls proliferation, differentiation and other functions in many cell types. Many cells synthesize TGFB1 and have specific receptors for it. It positively and negatively regulates many other growth factors. It plays an important role in bone rodeling as it is a potent stimulator of osteoblastic bone formation, causing chotaxis, proliferation and differentiation in committed osteoblasts. Can promote either T-helper 17 cells (Th17) or regulatory T-cells (Treg) lineage differentiation in a concentration-dependent manner. At high concentrations, leads to FOXP3-mediated suppression of RORC and down-regulation of IL-17 expression, favoring Treg cell development. At low concentrations in concert with IL-6 and IL-21, leads to expression of the IL-17 and IL-23 receptors, favoring differentiation to Th17 cells.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	16.8 kDa

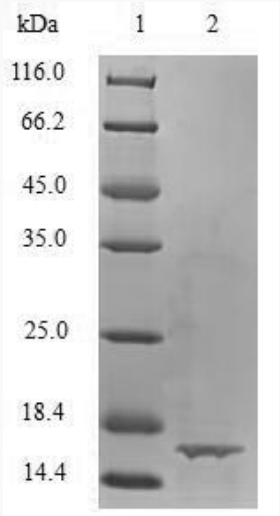
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AA Sequence	ALDTNYCFSSTEKNCCVRQLYIDFRKDLGWKWIHEPKGYHANFCLGPCPYIWSLDT QYSKVLALYNQHNPGASAAPCCVPQALEPLPIVYYVGRKPKVEQLSNMIVRSCKCS
Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA with concentration instruction is sent along with the products.

GENE INFORMATION

Gene Name	TGFB1 transforming growth factor beta 1 [Bos taurus (cattle)]
Official Symbol	TGFB1
Gene ID	282089
mRNA Refseq	NM_001166068
Protein Refseq	NP_001159540
UniProt ID	P18341

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(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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