

# Active GMP Recombinant Porcine TGFB1 Protein, His-Tagged

Cat. No. TGFB1-01P Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	GMP Recombinant Porcine TGFB1 Protein, His-Tagged was expressed in Escherichia coli cell-derived in an animal component free process under cGMP guidelines.
<b>Species</b>	Porcine
<b>Source</b>	E.coli
<b>Description</b>	Transforming growth factor beta 1 or TGF- $\beta$ 1 is a polypeptide member of the transforming growth factor beta superfamily of cytokines. It is a secreted protein that performs many cellular functions, including the control of cell growth, cell proliferation, cell differentiation, and apoptosis. In humans, TGF- $\beta$ 1 is encoded by the TGFB1 gene.
<b>Form</b>	Lyophilized
<b>Bio-activity</b>	Measure by its ability to inhibit IL-4-induce proliferation in HT-2 cells. The ED50 for this effect is <0.1 ng/mL.
<b>AA Sequence</b>	MALDTNYCFSSTEKNCCVRQLYIDFRKDLGWKWIHEPKGYHANFCLGPCPYIWSLD TQYSKVLALYNQHNPASAAAPCCVPQALEPLPIVYYVGRKPKVEQLSNMIVRSCKCS with polyhistidine tag at the C-terminus
<b>Endotoxin</b>	<0.1 EU per 1 $\mu$ g of the protein by the LAL method.

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<b>Purity</b>	>98% as determined by SDS-PAGE. Ni-NTA chromatography
<b>Notes</b>	Please use within one month after protein reconstitution.
<b>Storage</b>	Lyophilized protein should be stored at -20°C. Upon reconstitution, protein aliquots should be stored at -20°C or -80°C.
<b>Storage Buffer</b>	The protein was lyophilized from a solution containing 20 mM sodium citrate, 0.2 M NaCl, pH 4.5.
<b>Reconstitution</b>	It is recommended to reconstitute the lyophilized protein in sterile H <sub>2</sub> O to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

## GENE INFORMATION

<b>Gene Name</b>	TGFB1 transforming growth factor beta 1 [ <i>Sus scrofa</i> (pig) ]
<b>Official Symbol</b>	TGFB1
<b>Synonyms</b>	TGF-BETA-1
<b>Gene ID</b>	397078
<b>mRNA Refseq</b>	NM_214015.2
<b>Protein Refseq</b>	NP_999180.2
<b>UniProt ID</b>	P07200

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17-



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