

Active Recombinant Pig TGFB1 Protein (Ala279-Ser390), C-His tagged, Animal-free, Carrier-free

Cat. No. TGFB1-199P **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Pig TGFB1 Protein (Ala279-Ser390) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Pig
Source	E.coli
ProteinLength	Ala279-Ser390
Description	Transforming Growth Factors beta 1 (TGF beta 1) is the cytokine of the TGF-beta family, which is a 12.5 kDa protein containing 113 amino acid residues. TGF beta 1 is produced by white blood cell which plays an important role in inflammation, cell proliferation and differentiation. TGF beta 1 also has several functions about cancer and auto-immune diseases. TGF-beta 1 not only can activate the smad signaling but also can induce the MAPK, Rhoa and RAS.
Form	Lyophilized
Bio-activity	Measure by its ability to inhibit IL-4-induce proliferation in HT-2 cells. The ED50 for this effect is < 0.1 ng/mL.
Molecular Mass	The protein has a calculated MW of 13.73 kDa. The protein migrates as 11-17 kDa under reducing condition (SDS-PAGE analysis).

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Endotoxin	< 0.1 EU/μg of the protein by the LAL method.
Purity	>98% as determined by SDS-PAGE analysis.
Storage	This product is stable after storage at: -20 centigrade for 12 months in lyophilized state from date of receipt. -20 or -80 centigrade for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution containing 20 mM sodium citrate and 0.2 M NaCl, pH 4.5.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 200 μg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.

GENE INFORMATION

Gene Name	TGFB1 transforming growth factor, beta 1 [<i>Sus scrofa</i>]
Official Symbol	TGFB1
Synonyms	TGFB1; transforming growth factor, beta 1; transforming growth factor beta-1; transforming growth factor-beta-1; transforming growth factor, beta 1 (Camurati-Engelmann disease); TGF-BETA-1;
Gene ID	397078

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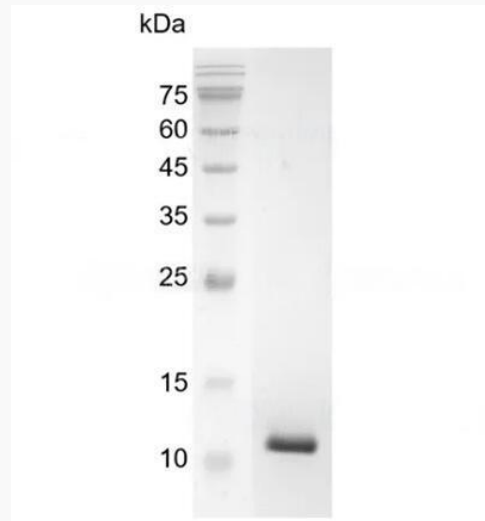
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mRNA Refseq [NM_214015](#)

Protein Refseq [NP_999180](#)

UniProt ID [P07200](#)

**SDS-PAGE analysis
of recombinant
swine TGF beta 1.**



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