

TGFβ 1/TGFB1, Swine, Recombinant

Cat. No. : PCK346

General Information

Synonyms	TGF-BETA-1;TGFB1
Species	Swine
Expression host	E.coli
Sequence	MALDTNYCFSSTEKNCCVRQLYIDFRKDLGWKWIHEPKGYHANFCLGPCPYIWSLDTQYSKV LALYNQHNP GASAAPCCVPQALEPLIVYYVGRKPKVEQLSNMIVRSCCKCS with polyhistidine tag at the C-terminus.
Accession	P07200.2
Tag	His-tag at the C-terminus
Mol mass	13.7 kDa
Expiration date	12 months
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.

Product feature

Purity	> 98% as determined by SDS-PAGE. Ni-NTA chromatography.
Endotoxin (EU/μg)	< 0.1
Storage	Lyophilized protein should be stored at -5~-20°C for 1 year. Upon reconstitution, store at 2-8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10% FBS, 5% HSA or 5% trehalose solution), protein aliquots should be stored at -5~-20°C or -80°C for 3-6 months.
Shipping	Ice bag
Formulation	The protein was lyophilized from a 0.2 μm filtered solution containing 20 mM sodium citrate, 0.2 M NaCl, pH 4.5.
Reconstitution	Reconstitute the Lyophilized Protein in sterile 10 mM HCl to a concentration of 100-200 μg/mL. Then, incubate it at room temperature for at least 20 mins to ensure sufficient dissolution. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

Background

Transforming growth factor beta 1 or TGF-β1 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-β1 is encoded by the TGFB1 gene.

SDS-PAGE

