

Swine recombinant TGF beta 1 (Transforming growth factor beta 1) protein, AF

Catalog Number: PROTP07200

Overview

Product Name	Swine recombinant TGF beta 1 (Transforming growth factor beta 1) protein, AF
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.
Size	5ug,20ug
Tag	His Tag (C-term)
Form	Lyophilized
Source	Escherichia coli
Formulation	The protein was lyophilized from a 0.2 um filtered solution containing 20 mM sodium citrate, 0.2 M NaCl, pH 4.5. If you have any concerns or special requirements, please confirm with us.

Storage

Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 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 -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.

Purity

>98% as determined by SDS-PAGE.

Molecular weight

The protein has a calculated MW of 13.73 kDa. The protein migrates as 11-17 kDa under reducing condition (SDS-PAGE analysis).

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.

Endotoxin

<0.1 EU per 1 ug of the protein by the LAL method.

Amino Acid Sequence

MALDTNYCFSSTEKNCCVRQLYIDFRKDLGWKWIHEPKGYHANFCLGPCPYIWSLDTQYSKVLALYNQHNP GASAAPCCVPQALEPLPIVYYVGRKPK
VEQLSNMIVRSCKCS with polyhistidine tag at the C-terminus.

Reconstitution

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile 10 mM HCl to a concentration not less than 100 ug/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

Usage

Boster's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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