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Human recombinant TGF beta 3 (Transforming growth factor beta 3) protein, AF

Catalog Number: PROTP10600-8

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Overview

Product Name	Human recombinant TGF beta 3 (Transforming growth factor beta 3) protein, AF
Description	Transforming Growth Factors-Beta 3 (TGF-beta 3) is belonging to the TGF-beta superfamily TGF-beta3 is 86%, 91% similar to TGF-beta1 and TGF-beta2. TGF-beta 3 is a 12.8 kDa protein containing 412 amino acids, which could inhibitor of DNA synthesis, increases cellular proliferation, essential mediator of EMT in cardiac morphogenesis, and up-regulated by milk stasis and induces apoptosis in mammary gland epithelium during involution.
Size	5ug,20ug,100ug
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 13.66 kDa. The protein migrates as 13 kDa under reducing condition (SDS-PAGE analysis).

Activity

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Measure by its ability to inhibit IL-4-induce proliferation in HT-2 cells. The ED_{50} for this effect is <50 pg/mL. The specific activity of recombinant human TGF beta 3 is > 2 x 10^7 IU/mg.

Endotoxin

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

Amino Acid Sequence

MALDTNYCFRNLEENCCVRPLYIDFRQDLGWKWVHEPKGYYANFCSGPCPYLRSADTTHSTVLGLYNTLNPEASASPCCVPQDLEPLTILYYVGRTPKV EQLSNMVVKSCKCS 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.

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Usage

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For Research Use Only. Not for use in diagnostic procedures.