

# Human recombinant TGF beta 2 (Transforming growth factor beta 2) protein, AF

Catalog Number: PROTP61812-4

## Overview

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| Product Name | Human recombinant TGF beta 2 (Transforming growth factor beta 2) protein, AF                                                                                                                                                                                                                                                                                                                       |
| Description  | Transforming Growth Factors beta 2 (TGFbeta-2) is a 12.85 kDa member of the epidermal Growth Factors with 113 amino acid residues. TGFbeta-2 is expressed from throughout the body. TGFbeta-2 is a regulator of cell proliferation, differentiation, apoptosis, cell plasticity and migration, etc. TGF-beta-2 also associates with various kinds of diseases, such as cancer and tissue fibrosis. |
| 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 3.5. 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 15 kDa under reducing condition (SDS-PAGE analysis).

## Activity

Measure by its ability to inhibit IL-4-induce proliferation in HT-2 cells. The ED<sub>50</sub> for this effect is 5 x 10<sup>-7</sup> IU/mg.

## Endotoxin

<0.01 EU per 1 ug of the protein by the LAL method.

### Amino Acid Sequence

MALDAAYCFRNVQDNCCLRPLYIDFKRDLGWKWIHEPKGYNANFCAGACPYLWSSDTQHSLVLSLYNTINPEASASPCCVSQDLEPLTILYYIGKTPKIE  
QLSNMIVKSCKCS 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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