

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

Catalog Number: PROTP04202-2

### Overview

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| Product Name | Mouse recombinant TGF beta 1 (Transforming growth factor beta 1) protein, AF                                                                                                                                                                                                                                                                                                                                                              |
| Description  | The transforming Growth Factors beta (TGF beta) family of cytokines are ubiquitous, multifunctional, and essential to survival. They play the central roles in growth, development, inflammation, repair, and host immunity. The mammalian TGF beta isoforms (TGF beta 1, beta 2 and beta 3) are secreted as potential precursors and possess a variety of cell surface receptors and produces at least two mediate signal transductions. |
| 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 13.8 kDa. The protein migrates as 16 kDa under reducing condition (SDS-PAGE analysis).

### Activity

Measure by its ability to inhibit the IL-4 dependent proliferation in HT-2 cells. The ED<sub>50</sub> 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 GASASPCCVPQALEPLPIVYYVGRKPK  
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

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