

# Recombinant Human TGF beta 1 protein (His Tag)

Catalog Number: Eg0879

## Basic Information

**Species:**  
Human

**Purity:**  
>90 %, SDS-PAGE

**Tag:**  
His Tag

## Technical Specifications

**Purity:**

>90 %, SDS-PAGE

**Endotoxin Level:**

<0.1 EU/ µg protein, LAL method

**Source:**

HEK293-derived Human TGF beta 1 protein Leu30-Ser390 (Accession# P01137) with a His tag at the C-terminus.

**GeneID:**

7040

**Accession:**

P01137

**Predicted Molecular Mass:**

42.3 kDa

**SDS-PAGE:**

14 kDa, 35-40 kDa and 47-60 kDa, reducing (R) conditions

**Formulation:**

Lyophilized from sterile PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

**Storage:**

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

**Shipping:**

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

TGF-beta is a member of the transforming growth factor beta (TGFB) family of cytokines, which are multifunctional peptides that regulate proliferation, differentiation, adhesion, migration, and other functions in many cell types. TGF-beta is produced by a number of cell types including regulatory T cells, fibroblasts, epithelial cells, and endothelial cells. TGF-beta acts synergistically with TGFA in inducing transformation. It also acts as a negative autocrine growth factor. TGF-beta plays an important role in bone remodeling as it is a potent stimulator of osteoblastic bone formation, causing chemotaxis, proliferation and differentiation in committed osteoblasts. Mice lacking TGF-beta develop severe multifocal inflammatory disease, yolk sac defects and colon cancer.

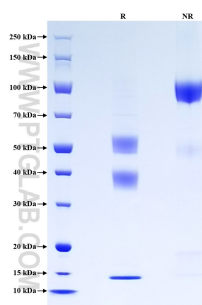
## References

1. Siegel PM. et al. (2003) Nat Rev Cancer 3: 807-21.
2. Bieri B. et al. (2006) Nat Rev Cancer 6: 506-20.
3. Tian M. et al. (2009) Future Oncol 5: 259-71.
4. Priyadarshi S. et al. (2013) 28: 2490-7.

## Synonyms

TGFB1, TGFB1, TGF beta 1, TGFBeta, TGF-beta 1, TGF-beta1, Latency-associated peptide, TGF beta

## Selected Validation Data



Purity of Recombinant Human TGF beta 1 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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