

## Human TGF Beta 2, His Tag, E. coli

**Catalog Number** LDG091PHE

**Package** 5 µg / 20 µg / 100 µg / Customized package

For full product information, images and publications, please visit [our website](#).



### Specifications

#### Species of Origin

Human

#### Affinity Tag

His Tag (C-term)

#### Purity

>98% as determined by SDS-PAGE analysis.

#### Activity

Measure by its ability to inhibit IL-4-induced proliferation in HT-2 cells. The ED<sub>50</sub> for this effect is <0.2 ng/mL. The specific activity of recombinant human TGF beta 2 is > 5 x 10<sup>6</sup> IU/mg.

#### Form

Lyophilized

#### Expression System

Escherichia coli

#### Storage Buffer

Lyophilized from a 0.2 µm filtered solution of PBS, pH 8.0.

#### Molecular weight

The protein has a calculated MW of 13.66 kDa. The protein migrates as 15 kDa under reducing condition (SDS-PAGE analysis).

#### Endotoxin Level

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

### Background

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### Background

Transforming Growth Factors beta 2 (TGF $\beta$ -2) is a 12.85 kDa member of the epidermal Growth Factors with 113 amino acid residues. TGF $\beta$ -2 is expressed from throughout the body. TGF $\beta$ -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.

### Uniprot ID

#P61812

### Synonyms

Latency-associated peptide, LAP, Transforming Growth Factors beta-2, TGF-beta-2, Glioblastoma-derived T-cell suppressor factor, Transforming Growth Factors beta-2 proprotein

### Sequence Note

Ala303-Ser414

## Instruction

### Reconstitution

It is recommended to reconstitute the lyophilized protein in sterile H<sub>2</sub>O to a concentration not less than 200  $\mu$ g/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved. In some experiments, it recommends to add 10 mM HCl when reconstitute lyophilized protein.

### Stability & Storage

This product is stable after storage at:

- -20°C for 12 months in lyophilized state from date of receipt.
- -20°C or -80°C for 2 weeks under sterile conditions after reconstitution.

Avoid repeated freeze/thaw cycles.

### Shipping

The product is shipped with polar packs. Upon receipt, store it immediately at -20°C or lower for long term storage.

## Image

### Tainan Headquarter

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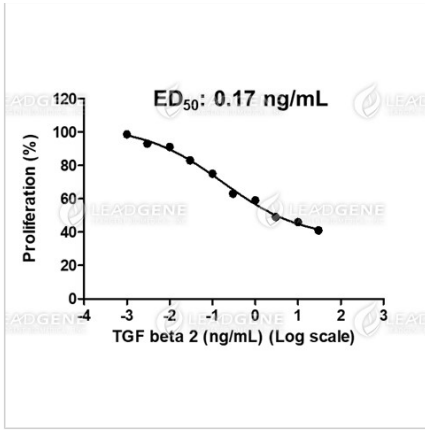
bd@leadgene.com.tw

### Innovation & Research Center

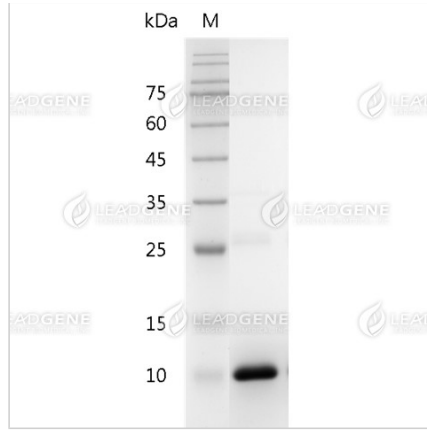
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Human TGF Beta 2, His Tag, E. coli (LDG091PHE) inhibited IL-4-induced HT-2 cell proliferation, with the ED50 at 0.17 ng/mL.



SDS-PAGE analysis of recombinant human TGF Beta 2.

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