

## Human TGF Beta 3, His Tag, E. coli

<b>Catalog Number</b>	LDG152PHE
<b>Package</b>	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 < 50 pg/mL. The specific activity of recombinant human TGF Beta 3 is approximately 2 x 10<sup>7</sup> IU/mg.

#### Form

Lyophilized

#### Expression System

Escherichia coli

#### Storage Buffer

Lyophilized from a 0.2 µm filtered solution containing 20 mM sodium citrate and 0.2 M NaCl, pH 4.5.

#### Molecular weight

The protein has a calculated MW of 13.66 kDa. The protein migrates as 13 kDa under reducing condition (SDS-PAGE analysis).

#### Endotoxin Level

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

### Background

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### Background

Transforming Growth Factors-Beta 3 (TGF-beta 3) is belonging to the TGF- $\beta$  superfamily TGF- $\beta$ 3 is 86%, 91% similar to TGF- $\beta$ 1 and TGF- $\beta$ 2. 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.

### Uniprot ID

# P10600 1

### Synonyms

Transforming Growth Factors beta-3 proprotein, Latency-associated peptide, LAP, Transforming Growth Factors beta-3, TGF-beta-3

### Sequence Note

Ala301-Ser412

## 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.

### 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 1 month 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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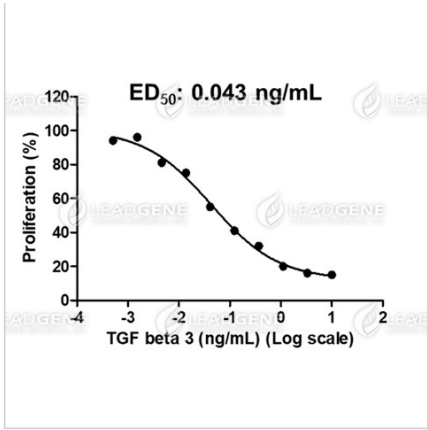
bd@leadgene.com.tw

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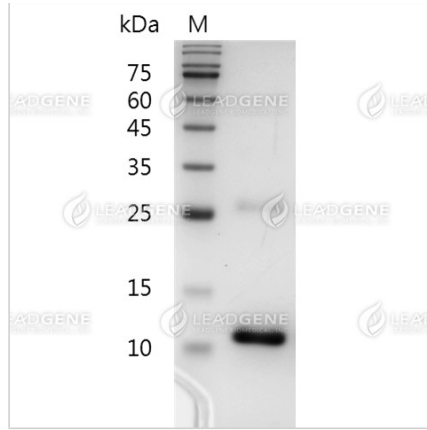
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Human TGF Beta 3, His Tag, E. coli (LDG152PHE) inhibited IL-4-induced HT-2 cell proliferation, with the ED50 at 43 pg/mL.



SDS-PAGE analysis of recombinant human TGF beta 3.

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