

Human TGF beta 1, His Tag, HEK293

Catalog Number	LDG020PHM
Package	100 µg / 20 µg / 5 µg / Customized package

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



Specifications

Species of Origin

Human

Expression System

HEK293

Affinity Tag

His Tag (N-term)

Storage Buffer

Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.0.

Purity

>95% as determined by SDS-PAGE analysis.

Molecular weight

The protein has a calculated MW of 44.3 kDa. The protein migrates as approximately 12, 40, 50 kDa under reducing conditions (SDS-PAGE analysis) corresponding to mature TGFβ1, LAP protein, and inactive latent TGFβ1 respectively due to glycosylation

Activity

Measure by its ability to inhibit the IL-4 dependent proliferation in TF-1 cells. The ED₅₀ for this effect is < 0.1 ng/mL.

Endotoxin Level

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

Form

Lyophilized

Background

Tainan Headquarters

+886-6-2536677

bd@leadgene.com.tw

Innovation & Research Center

+886-2-27065528

CLD Center

+886-6-2536677

Background

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.

Uniprot ID

P01137

Synonyms

Transforming Growth Factors beta-1 proprotein

Sequence Note

Met1-Ser390

Instruction

Reconstitution

It is recommended to reconstitute the lyophilized protein in 10 mM HCl to a concentration of 200 µg/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

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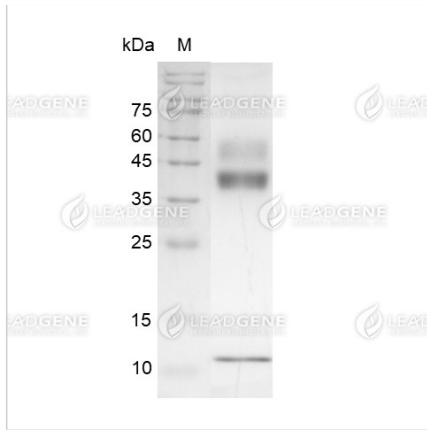
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SDS-PAGE analysis of recombinant
human TGF beta 1 protein.

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