

Latent TGF beta 3 Protein (Primary Amine Labeling), Human, Recombinant (His), Biotinylated

## General Information

**Synonyms:** TGF-beta3;TGFβ;TGF-β;TGF-β3;TGFB3;ARVD;TGFβ3;Latent TGF β3

**Protein Construction:** Leu24-Ser412

**Species:** Human

**Expression Host:** HEK293 Cells

**Accession:** P10600-1

**Molecular Weight:** 45.9 kDa (predicted). Due to enzyme lysis and glycosylation, the protein migrates to 43-48 kDa and 50-60 kDa based on Tris-Bis PAGE result.

## QC Testing

**Biological Activity:** Immobilized Human TGF-beta RII at 0.5 µg/mL (100 µL/well) on the plate. Dose response curve for Biotinylated Human Latent TGF beta 3, His Tag with the EC50 of 0.15 µg/mL determined by ELISA.

**Purity:** > 95% as determined by Tris-Bis PAGE

**Endotoxin:** < 1.0 EU/µg of the protein as determined by the LAL method.

**Formulation:** Supplied as 0.22 µm filtered solution in 20 mM PBS (pH 7.4).

## Preparation and Storage

### Stability & Storage:

It is recommended to store the product under sterile conditions at -70°C or lower. Samples are stable for up to 12 months at -80°C. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

### Shipping:

Proteins are shipped with blue ice.

## Protein Background

Transforming growth factor-betas (TGF-βs) are multifunctional cytokines that have been implicated in the regulation of a broad range of biological processes, including cell proliferation, cell survival, and cell differentiation. And transforming growth factor beta3 (TGFbeta3) is a key protein involved in scar-free healing observed in embryos.

### Reference

Okamura T, et al. Role of TGF-β3 in the regulation of immune responses. Clin Exp Rheumatol. 2015 Jul-Aug;33(4 Suppl 92):S63-9. Epub 2015 Oct 12. PMID: 26457612.

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