

# Recombinant Human LAP TGF-beta-1(C33S) Protein

Catalog No.: RP01459 Recombinant

## **Sequence Information**

Species Gene ID Swiss Prot Human 7040 P01137

## Tags

N-his

#### **Synonyms**

TGFB1; CED; DPD1; LAP; TGFB; TGFbeta; transforming growth factor beta-1;TGF-beta

1;CED;DPD1;LAP;TGFB;TGFbeta;TGF-β

## **Product Information**

**Source** Purification HEK293 cells ≥ 90 % as

determined by SDS-PAGE.

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Calculated MW Observed MW

42.09 kDa 40-45 kDa

#### **Endotoxin**

< 0.1 EU/ $\mu$ g of the protein by LAL method.

#### **Formulation**

Lyophilized from a 0.22  $\mu m$  filtered solution of 50mM Glycine,150mM Nacl,pH3.2.

#### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## **Background**

TGF-beta 1 is a member of the transforming growth factor beta (TGF-beta) family. The transforming growth factor-beta family of polypeptides are involved in the regulation of cellular processes, including cell division, differentiation, motility, adhesion and death. TGF-beta 1 positively and negatively regulates many other growth factors. It inhibits the secretion and activity of many other cytokines including interferon-γ, tumor necrosis factor-alpha and various interleukins. It can also decrease the expression levels of cytokine receptors. Meanwhile, TGF-beta 1 also increases the expression of certain cytokines in T cells and promotes their proliferation, particularly if the cells are immature. TGF-beta 1 also inhibits proliferation and stimulates apoptosis of B cells, and plays a role in controlling the expression of antibody, transferrin and MHC class II proteins on immature and mature B cells. As for myeloid cells, TGF-beta 1can inhibit their proliferation and prevent their production of reactive oxygen a

## **Basic Information**

#### **Description**

Recombinant Human LAP TGF-beta-1(C33S) Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Leu30-Arg278(Cys33Ser)) of human LAP (TGF-beta 1) (Accession  $\#NP_000651.3$ ) fused with a  $8\times His$  tag at the N-terminus.

### **Bio-Activity**

## **Shipping**

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

#### **Storage**

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

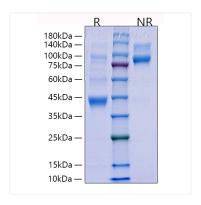
Avoid repeated freeze/thaw cycles.

#### **Operational Notes**

For your safety and health, please wear a lab coat and disposable gloves for handling.

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## **Validation Data**



Recombinant Human LAP TGF-beta-1(C33S) Protein was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.