

Recombinant Human TGF-beta 1 Protein

Catalog No.: RP02514 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	7040	P01137

Tags

C-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
<i>E. coli</i>	> 98% by SDS-PAGE.

Endotoxin

<0.1EU/μg

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 8.0.

Reconstitution

Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.

Background

Transforming growth factor beta 1 or TGF-β1 is a polypeptide member of the transforming growth factor beta superfamily of cytokines. It is a secreted protein that performs many cellular functions, including the control of cell growth, cell proliferation, cell differentiation, and apoptosis. In humans, TGF-β1 is encoded by the TGFB1 gene.

Basic Information

Description

Recombinant Human TGF beta 1 Protein is produced by Escherichia coli expression system. The target protein is expressed with sequence of Human TGF beta 1 fused with polyhistidine tag at the C-terminus

Bio-Activity

Measured by its ability to inhibit the IL-4 dependent proliferation in HT-2 cells. The ED₅₀ for this effect is <0.1 ng/mL. | The specific activity of recombinant human TGF beta 1 is approximately >5 x 10⁷ IU/mg. | Measured by its ability to inhibit proliferation in MCF-7 cells The ED₅₀ for this effect is <3.2 ng/mL.

Storage

Store the lyophilized protein at -20°C to -80°C for long term.

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.

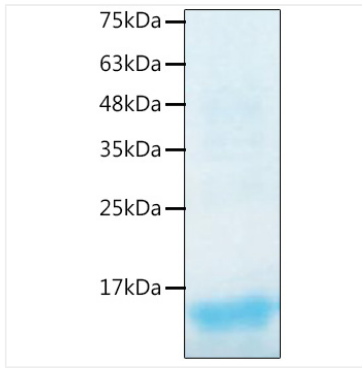
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Validation Data



Recombinant Human TGF-beta 1 Protein was determined by SDS-PAGE with Coomassie Blue, showing bands at 15 kDa.