

RP02209

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Recombinant Human Mature TGF-beta-1 Protein

Catalog No.: RP02209

Recombinant

Sequence Information

| Species | Gene ID | Swiss Prot |
|---------|---------|------------|
| Human | 7040 | P01137 |

Tags

C-Avi

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 | > 95% as determined by SDS-PAGE |

Endotoxin

< 0.5EU per µg by the LAL method.

Formulation

Lyophilized from 0.22µm filtered solution in 50mM Glycine150mM NaCl, pH2.5. Normally 5 % trehalose is added as protectant before lyophilization.

Reconstitution

Centrifuge tubes before opening.
Reconstituting to a concentration more than 100 µg/ml is recommended.
Dissolve the lyophilized protein in 5mM HCl.

Background

TGF-beta 1 (transforming growth factor beta 1) is one of three closely related mammalian members of the large TGF-beta superfamily that share a characteristic cystine knot structure. TGF-beta 1, -2 and -3 are highly pleiotropic cytokines that are proposed to act as cellular switches that regulate processes such as immune function, proliferation and epithelial-mesenchymal transition. Transforming growth factor beta-1 is multifunctional protein that regulates the growth and differentiation of various cell types and is involved in various processes, such as normal development, immune function, microglia function and responses to neurodegeneration.

Basic Information

Description

Recombinant Human Mature TGF-beta-1 Protein is produced by mammalian expression system. The target protein is expressed with sequence (Ala279-Ser390) of human Mature TGF beta 1 (Accession #) fused with a Avi Tag at the C-terminal. .

Bio-Activity

Immobilized Biotinylated Human TGF Beta1 at 1 µg/mL (100 µL/Well). Dose response curve for TGFβ II with the EC₅₀ of 17.4 ng/mL determined by ELISA.

Storage

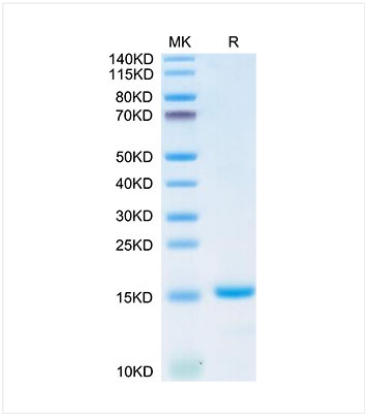
Store the lyophilized protein at -20°C to -80°C for long term. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

Contact

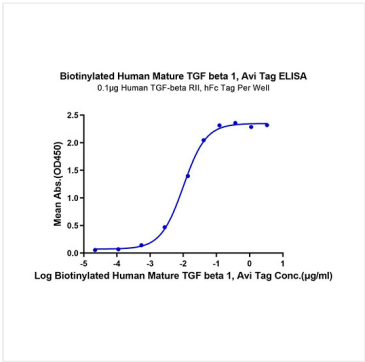


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Validation Data



Biotinylated Human Mature TGF beta 1 on Tris-Bis PAGE under reduced conditions. The purity is greater than 95%.



Immobilized Human TGF-beta RII, hFc Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human Mature TGF beta 1, Avi Tag with the EC₅₀ of 10.0ng/ml determined by ELISA.