Recombinant Mouse/Rat Mature TGF-beta 1 Protein

Catalog No.: RP00671

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Sequence Information

Species
Mouse

Gene ID
21803

Swiss Prot
P04202

Tags
No tag

Synonyms
TGF-beta1,Tgfb,Tgfb-1,TGFbeta1, CED,DPD1,LAP,TGFB,TGFbeta, TGFB1

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
12.81 kDa

Observed MW
15 kDa

Endotoxin
< 0.01 EU/μg of the protein by LAL method

Formulation
Lyophilized from a 0.2 μm filtered solution of 50 mM Glycine,150 mM NaCl, pH3.5. Contact us for customized product form or formulation.

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.

Background

Transforming growth factor beta 1 (TGFβ1) is the prototype of a growing superfamily of peptide growth factorsand plays a prominent role in a variety of cellular processes, including cell-cycle progression, celldifferentiation, reproductivefunction,development,motility,adhesion,neuronalgrowth, bonemorphogenesis, wound healing, and immune surveillance. TGF- β 1, TGF- β 2 and TGF- β 3 signal via the sameheteromeric receptor complex, consisting of a ligand binding TGF- β receptor type II (T β R-II), and a TGF- βreceptor type I (T β R-I). Signal transduction from the receptor to the nucleus is mediated via SMADs. TGF- βexpression is found in cartilage, bone, teeth, muscle, heart, blood vessels, haematopoitic cells, lung, kidney,gut, liver, eye, ear, skin, and the nervous system.

Basic Information

Description
Recombinant Mouse TGF-beta 1/TGFB1 Protein is produced by Human cells expression system. The target protein is expressed with sequence (Ala279-Ser390) of mouse TGF-beta 1/TGFB1 (Accession #P04202).

Activity
Measured by its ability to inhibit the IL-4-dependent proliferation of HT-2 Mouse T cells. The ED_{50} for this effect is 0.054-0.214 ng/mL, corresponding to a specific activity of 4.7×10^{6}~1.85×10^{7} units/mg.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

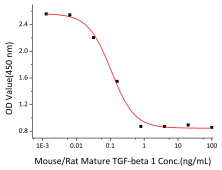
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

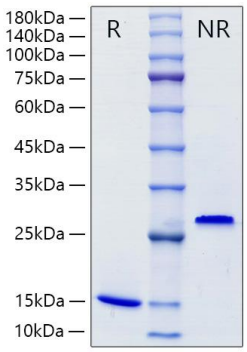
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Validation Data



Recombinant Mouse/Rat Mature TGF-beta 1 inhibit the IL-4-dependent proliferation of HT-2 mouse T cells. The ED_{50} for this effect is 0.054-0.214 ng/mL, corresponding to a specific activity of 4.7×10^{6}~1.85×10^{7} units/mg.



Recombinant Mouse/Rat Mature TGF-beta 1 Protein was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.