

Recombinant Mouse/Rat Mature TGF-beta 1 Protein

Catalog No.: RP00671 Recombinant

Sequence Information

Species Gene ID Swiss ProtMouse 21803 P04202

Tags

No tag

Synonyms

TGF-

beta1;Tgfb;Tgfb-1;TGFbeta1;CED;DPD1;L AP;TGFB;TGFbeta;TGFB1

Product Information

Source Purification
HEK293 cells > 95% by SDSPAGE.

Endotoxin < 0.01 EU/µg

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.

Contact

6	400-999-6126
\bowtie	cn.market@abclonal.com.cn
•	www.abclonal.com.cn

Background

Transforming growth factor beta 1 (TGF β 1) is the prototype of a growing superfamily of peptide growth factors and 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- β receptor type I (T β R-I). Signal transduction from the receptor to the nucleus is mediated via SMADs. TGF- β expression 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).

Bio-Activity

Measured by its ability to inhibit the IL-4-dependent proliferation of HT-2 Mouse T cells. The ED₅₀ for this effect is 0.054-0.214 ng/mL, corresponding to a specific activity of $4.7\times10^6\sim1.85\times10^7$ units/mg.

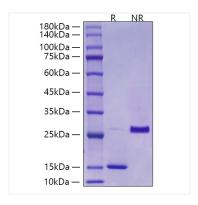
Storage

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

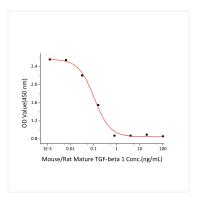
After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Mouse TGF-beta 1/TGFB1 Protein was determined by SDS-PAGE under reducing and non-reducing conditions , showing a band at 15 kDa and 25-30 kDa respectively.



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 $4.7\times10^6\sim1.85\times10^7$ units/mg.