

Recombinant Human/Mouse/Rat mature TGF-beta 3 Protein

Catalog No.: RP00645 Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 7043 P10600

Tags

No tag

Synonyms

TGFB3;ARVD;ARVD1;LDS5;RNHF;TGF-beta3

Product Information

Source Purification HEK293 cells ≥ 95 % as

determined by SDS-

PAGE.

Calculated MW Observed MW

12.70 kDa 13-16 kDa

Endotoxin

< 1 EU/µg of the protein by LAL method.

Formulation

Lyophilized from a 0.2 μ m filtered solution of 50mM Glycine-HCl, 150mM NaCl, pH 2.5. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the tube 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

Transforming growth factor beta 3(TGFB3) is a member of a TGF - β superfamily which is defined by theirstructural and functional similarities. TGFB3 is secreted as a complex with LAP. This latent form of TGFB3becomes active upon cleavage by plasmin, matrix metalloproteases, thrombospondin -1, and a subseto fintegrins. It binds with high affinity to TGF- β RII, a type II serine/threonine kinase receptor. TGFB3 is involved incell differentiation, embryogenesis and development. It is believed to regulate molecules involved incellular adhesion and extracellular matrix (ECM) formation during the process of palate development. Without TGF- β 3, mammals develop a deformity known as a cleft palate.

Basic Information

Description

Recombinant Human/Mouse/Rat TGF-beta 3 Protein is produced by Human cells expression system. The target protein is expressed with sequence (Ala301-Ser412(Tyr340Phe)) of human TGF-beta 3/TGFB3 (Accession #P10600).

Bio-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 24.2-96.6 pg/mL, corresponding to a specific activity of $1.04 \times 10^7 \sim 4.17 \times 10^7$ units/mg.

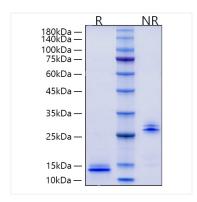
Storage

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

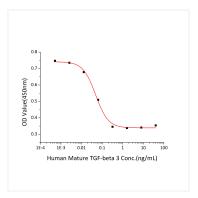
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

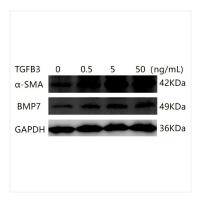
Validation Data



Recombinant Human/Mouse/Rat mature TGFbeta 3 Protein was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.



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Recombinant Human/Mouse/Rat mature TGF-beta 3 Protein enhances $\alpha\text{-SMA}$ and BMP7 expression in NRK-49F rat kidney cells.0.5-5ng/mL of Recombinant Human/Mouse/Rat mature TGF-beta 3 can effectively enhance $\alpha\text{-SMA}$ and BMP7 expression.