

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

Catalog No.: RP00645

Sequence Information

Species **Gene ID**
Human 7043

Swiss Prot **Tags**
P10600 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 μm 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 stabilizer (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 3 (TGFB3) is a member of a TGF-β superfamily which is defined by their structural and functional similarities. TGFB3 is secreted as a complex with LAP. This latent form of TGFB3 becomes active upon cleavage by plasmin, matrix metalloproteases, thrombospondin-1, and a subset of integrins. It binds with high affinity to TGF-β RII, a type II serine/threonine kinase receptor. TGFB3 is involved in cell differentiation, embryogenesis and development. It is believed to regulate molecules involved in cellular adhesion and extracellular matrix (ECM) formation during the process of palate development. Without TGF-β3, 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).

Activity

Measured by its ability to inhibit the IL-4-dependent proliferation of HT-2 mouse T cells. The ED₅₀ for this effect is 24.2-96.6 pg/mL, corresponding to a specific activity of 1.04×10⁷~4.17×10⁷ 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°C

Operational Notes

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

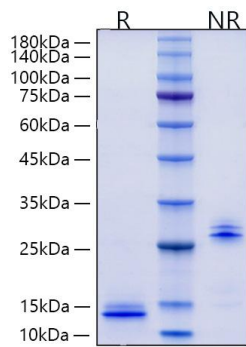
Contact

☎ | 400-999-6126

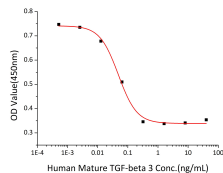
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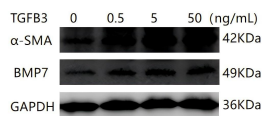
Validation Data



Recombinant Human/Mouse/Rat mature TGF-beta 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 α -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 α -SMA and BMP7 expression.