

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

RPCB0730

Description

This high-purity recombinant protein is supplied as a kit for advanced applications. The kit includes Bradford Reagent to quantify total protein concentration for accurate sample normalization (Optional).

Protein Information

SKU: RPCB0730

Calculated MW: 12.70 kDa

Contents: 10 µg, 20 µg, 50 µg, 100 µg
Bradford Reagent (1 vial, 2ml)

Observed MW: 13-16 kDa

Reactivity: Human

Protein Description: High quality, high purity and low endotoxin recombinant Recombinant Human/Mouse/Rat mature TGF-beta 3 Protein (RPCB0730), tested reactivity in HEK293 cells and has been validated in SDS-PAGE. 100% guaranteed.

Gene ID: 7043

Protein Quantification (Optional): To quantify total protein levels, use the Bradford Reagent included in this kit. Visit <https://www.assaygenie.com/bradford-protein-assay-protocol/> to view the full protocol.

Expression Host: -

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.

Tags: No tag

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.

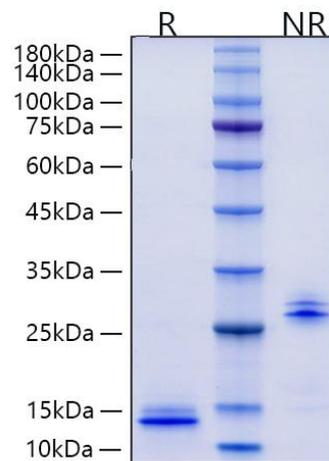
Synonyms: TGFB3, ARVD, ARVD1, LDS5, RNHF, TGF-beta3

Purification: ≥ 95 % as determined by SDS-PAGE.

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

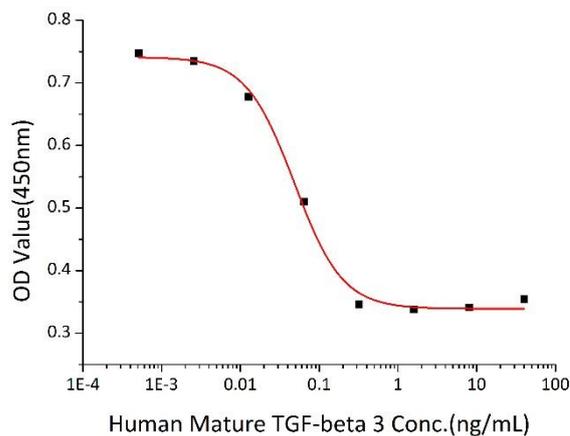
Validation Data

Image



Description

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



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 $1.04 \times 10^7 \sim 4.17 \times 10^7$ units/mg.