

Recombinant Mouse/Rat Mature TGF-beta 2 Protein

Catalog No.: RP00672

Sequence Information

Species **Gene ID**
Mouse/Rat 21808

Swiss Prot **Tags**
P27090 No tag

Synonyms

TGFB2; BSC-1 cell growth inhibitor; Cetermin; Glioblastoma-derived T-cell suppressor factor; G-TSF; MGC116892; Polyergin; TGF-beta2; TGF-beta-2; transforming growth factor beta-2

Product Information

Source **Purification**
HEK293 cells ≥ 95 % as determined by SDS-PAGE.

Calculated MW **Observed MW**
12.69 kDa 10-15 kDa

Endotoxin

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

Formulation

Lyophilized from a 0.2 μm filtered solution of 4 mM HCl. 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 2 (TGF-β 2) is a member of TGF-beta superfamily that shares a characteristic cysteine knot structure. Mice with TGF-β 2 gene deletion show defects in development of cardiac, lung, craniofacial, limb, spinal column, eye, inner ear and urogenital systems. All TGF-β isoforms signal via the same heteromeric receptor complex, consisting of a ligand binding TGF-β receptor type II (TβR-II), and a TGF-β receptor type I (TβR-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, haematopoietic cells, lung, kidney, gut, liver, eye, ear, skin, and the nervous system.

Basic Information

Description

Recombinant Mouse TGF-beta 2/TGFB2 Protein is produced by Human cells expression system. The target protein is expressed with sequence (Ala303-Ser414) of mouse TGF-beta 2/TGFB2 (Accession #P27090).

Activity

Recombinant Mouse/Rat Mature TGF-beta 2 Protein inhibit the IL-4-dependent proliferation of HT-2 mouse T cells. The ED50 for this effect is 0.062-0.248 ng/mL, corresponding to a specific activity of 4.03×10⁶~1.61×10⁷ 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.

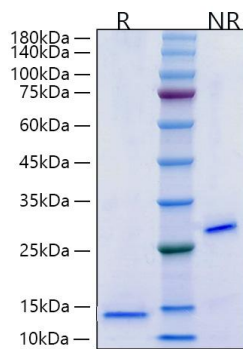
Contact

☎ | 400-999-6126

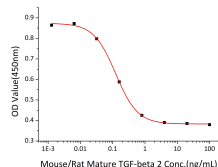
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Validation Data



Recombinant Mouse/Rat Mature TGF-beta 2 Protein was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.



Recombinant Mouse/Rat Mature TGF-beta 2 Protein inhibit the IL-4-dependent proliferation of HT-2 mouse T cells. The ED_{50} for this effect is 0.062-0.248 ng/mL, corresponding to a specific activity of $4.03 \times 10^6 \sim 1.61 \times 10^7$ units/mg.