

For Research Use Only. Not For Use In Diagnostic Procedures

Version 2.0

Recombinant Mouse/Rat Transforming Growth Factor beta 1/TGF-beta 1

Do not eat



Cat.No. MTG9018

Size : 10ug / 50ug / 500ug

Known as :

TGF-beta-1; CED; DPD1; TGFB; TGF-b1; TGFB1; CEDLAP; latency-associated peptide; TGFbeta; TGF-beta 1 protein; transforming growth factor beta-1; TGF-β1; TGF beta1; TGFbeta 1; TGF-beta 1; TGFbeta

Technical literature is available at: www.mesgenbio.com

E-mail MesGen Technical Services if you have questions on use of this system: tech@mesgenbio.com

Description

Transforming growth factor beta 1 (TGFβ1) 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, cell differentiation, reproductive function, development, motility, adhesion, neuronal growth, bone morphogenesis, wound healing, and immune surveillance. TGF-β1, TGF-β2 and TGF-β3 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.

Product origin

Recombinant Mouse/Rat Transforming Growth Factor beta 1 is produced by our Mammalian expression system and the target gene encoding Ala279-Ser390 is expressed.

Dissolution

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in 4mM HCl. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Store condition

Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Formulation

Lyophilized from a 0.2 µm filtered solution of 4mM HCl.

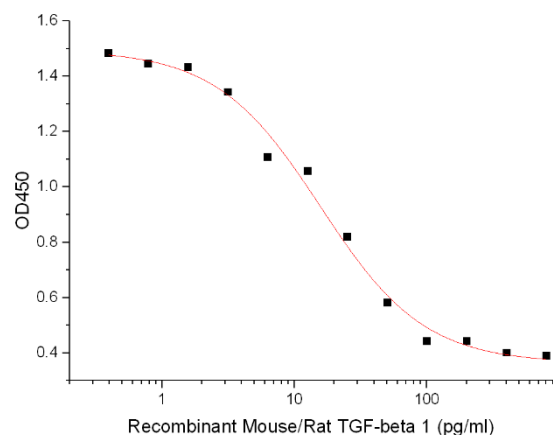
Quality control

Purity : Greater than 95% as determined by reducing SDS-PAGE.

Endotoxin : Less than 0.1 ng/ug (1 EU/ug) as determined by LAL test.

Bioactivity : Measured by its ability to inhibit IL-4-dependent proliferation of TF-1 human erythroleukemic cells.

The ED50 for this effect is 5-25 µg/ml.



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