

For Research Use Only. Not For Use In Diagnostic Procedures

Version 2.0

Recombinant Human Transforming Growth

Factor β -1/TGFB1

Do not eat



Cat.No. MTG9020

Size : 10ug / 50ug / 500ug

Known as :

Transforming Growth Factor Beta-1; TGF-Beta-1; TGFbeta;
TGF-beta-1; Latency-Associated Peptide; LAP; TGFB1;
TGFB; TGF- β 1; TGF beta1; TGFbeta 1; TGF-beta 1;

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 β -1 (TGF β -1) is a secreted protein which belongs to the TGF- β family. TGF β -1 is abundantly expressed in bone, articular cartilage and chondrocytes and is increased in osteoarthritis (OA). TGF β -1 performs many cellular functions, including the control of cell growth, cell proliferation, cell differentiation and apoptosis. The precursor is cleaved into a latency-associated peptide (LAP) and a mature TGF β -1 peptide. TGF β -1 may also form heterodimers with other TGF β family members. It has been found that TGF β -1 is frequently upregulated in tumor cells. Mutations in this gene results in Camurati-Engelmann disease.

Product origin

Recombinant Human 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 μ g/ml. Dissolve the lyophilized protein in ddH₂O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Store condition

Lyophilized protein should be stored at $< -20^{\circ}\text{C}$, though stable at room temperature for 3 weeks.

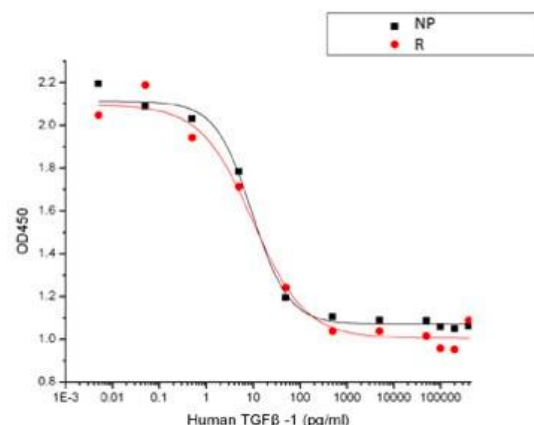
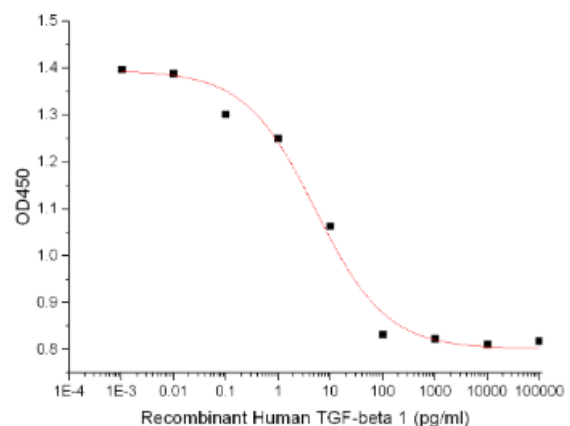
Reconstituted protein solution can be stored at $4-7^{\circ}\text{C}$ for 2-7 days. Aliquots of reconstituted samples are stable at $< -20^{\circ}\text{C}$ for 3 months.

Quality control

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

Endotoxin : Less than 0.01 EU/ μ g as determined by LAL test.

Bioactivity : Measured by its ability to inhibit the IL-4-dependent proliferation of TF-1 cells. The ED50 for this effect is 4-40 μ g/ml.



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