TGFβ1/TGFB1, Mouse, Recombinant

Cat. No. : PCK099

General Information

Synonyms	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
Species	Mouse
Expression host	Human Cells
Sequence	Ala279-Ser390
Accession	P04202
Mol mass	12.8 kDa
Expiration date	12 months
Bio activity	Measured by its ability to inhibit IL-4-dependent proliferation of TF-1 human erythroleukemic cells. The ED50 for this effect is 5-25 pg/mL.

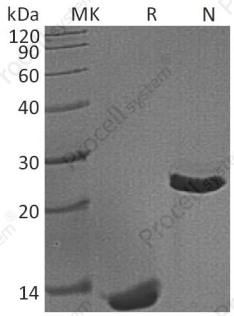
Product feature

Purity	> 95% as determined by reducing SDS-PAGE.
Endotoxin (EU/μg)	< 0.1
Storage	Lyophilized protein should be stored at -5~-20°C, stable for one year after receipt. Reconstituted protein solution can be stored at 2-8°C for 2-7 days. Aliquots of reconstituted samples are stable at -5~-20°C for 3 months.
Shipping	Ice bag
Formulation	Lyophilized from a 0.2 μm filtered solution of 4 mM HCl, 4% Mannitol.
Reconstitution	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 10 mM HCl. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

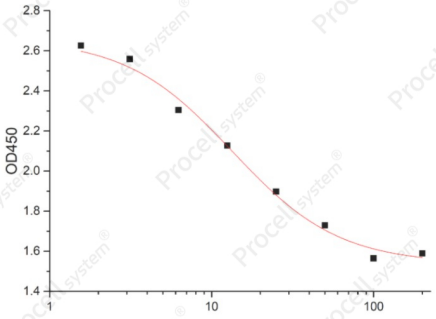
Background

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, haematopoitic cells, lung, kidney, gut, liver, eye, ear, skin, and the nervous system.

SDS-PAGE



Bio activity



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