

For Research Use Only

Recombinant Mouse TGF beta 1 protein (rFc Tag)



Catalog Number: Eg3734

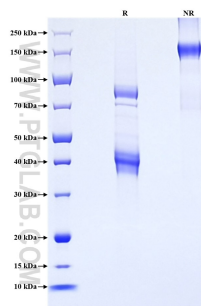
Basic Information	Species: Mouse	Purity: >90 %, SDS-PAGE	Tag: rFc Tag
Technical Specifications	Purity: >90 %, SDS-PAGE Endotoxin Level: <0.1 EU/μg protein, LAL method Source: HEK293-derived Mouse TGF beta 1 protein Leu30-Ser390 (Accession# P04202) with a rabbit IgG Fc tag at the C-terminus. GeneID: 21803 Accession: P04202 Predicted Molecular Mass: 67.5 kDa SDS-PAGE: 38-45kDa and 80-90 kDa, reducing (R) conditions Formulation: Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.		
Biological Activity	Not tested		
Storage and Shipping	Storage: It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. • Until expiry date, -20°C to -80°C as lyophilized proteins. • 3 months, -20°C to -80°C under sterile conditions after reconstitution. Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	TGF-beta is a member of the transforming growth factor beta (TGFB) family of cytokines, which are multifunctional peptides that regulate proliferation, differentiation, adhesion, migration, and other functions in many cell types. TGF-beta is produced by a number of cell types including regulatory T cells, fibroblasts, epithelial cells, and endothelial cells. TGF-beta acts synergistically with TGFα in inducing transformation. It also acts as a negative autocrine growth factor. TGF-beta plays an important role in bone remodeling as it is a potent stimulator of osteoblastic bone formation, causing chemotaxis, proliferation and differentiation in committed osteoblasts. Mice lacking TGF-beta develop severe multifocal inflammatory disease, yolk sac defects and colon cancer.		
References	1. Siegel PM. et al. (2003) Nat Rev Cancer 3: 807-21. 2. Bieri B. et al. (2006) Nat Rev Cancer 6: 506-20. 3. Tian M. et al. (2009) Future Oncol 5: 259-71. 4. Priyadarshi S. et al. (2013) 28: 2490-7.		
Synonyms	Tgfb1, TGFB1, TGF beta 1, TGFbeta, TGF-beta 1, Latency-associated peptide, TGF beta1, Tgfb		

For technical support and original validation data for this product please contact

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Selected Validation Data



Purity of Recombinant Mouse TGF beta 1 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.