

Recombinant Human TGFB3 Protein

Catalog Number:PKSH033140



Note: Centrifuge before opening to ensure complete recovery of vial contents.

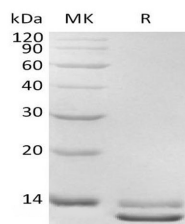
Description

Synonyms	Transforming growth factor beta-3;TGFB3;TGF-beta-3;Latency-associated peptide;LAP
Species	Human
Expression Host	HEK293 Cells
Sequence	Ala301-Ser412(Tyr340Phe)
Accession	P10600
Calculated Molecular Weight	12.7 kDa
Observed molecular weight	12-14 kDa
Tag	None
Bioactivity	Measured by its ability to inhibit the IL-4-dependent proliferation of TF-1 mouse T cells. The ED50 for this effect is 10-80 pg/ml.

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 0.01 EU per µg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from a 0.2 µm filtered solution of 50mM Glycine-HCl, 150mM NaCl, pH 2.5. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the pr
Reconstitution	Please refer to the printed manual for detailed information.

Data



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Background

Transforming growth factor beta 3(TGFB3) is a member of a TGF-β superfamily which is defined by their structural and functional similarities. TGFB3 is secreted as a complex with LAP. This latent form of TGFB3 becomes active upon cleavage by plasmin, matrix metalloproteases, thrombospondin -1, and a subset of integrins. It binds with high affinity to TGF-β RII, a type II serine/threonine kinase receptor. TGFB3 is involved in cell differentiation, embryogenesis and

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development. It is believed to regulate molecules involved in cellular adhesion and extracellular matrix (ECM) formation during the process of palate development. Without TGF- β 3, mammals develop a deformity known as a cleft palate.

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