

Recombinant Human/Mouse/Rat TGFB3

Catalog No : PMK2128

Known As: Transforming growth factor beta-3; TGFB3; TGF-beta-3; Latency-associated peptide; LAP

PROPERTIES

Description	Recombinant Human/Mouse/Rat Transforming Growth Factor Beta 3 is produced by our Mammalian expression system and the target gene encoding Ala301- Ser412(Tyr340Phe) is expressed.
Accession	P10600
Formulation	Lyophilized from a 0.2 μ m filtered solution of 50mM Glycine-HCl, 150mM NaCl, pH 2.5.
Size	10 μ g/50 μ g/500 μ g/1mg
Purity	> 95%
Endotoxin	< 0.01 EU/ μ g as determined by LAL test.
Predicted Mol Mass	12.7 KDa
Apparent Mol Mass	12-14 KDa, reducing conditions
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 μ g/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
Storage	Lyophilized protein should be stored at $\leq -20^{\circ}\text{C}$, stable for one year after receipt. Reconstituted protein solution can be stored at 2-8 $^{\circ}\text{C}$ for 2-7 days. Aliquots of reconstituted samples are stable at $\leq -20^{\circ}\text{C}$ for 3 months.
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 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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