Recombinant Human/Mouse TGFB3

Catalog No: CJ44

Description	Recombinant Human/Mouse Transforming Growth Factor beta 3 is produced by our Mammalian expression system and the target gene encoding Ala301-Ser412(Tyr340Phe) is expressed.
Source	Human Cells
Alternative name	Transforming growth factor beta-3;TGFB3;TGF-beta-3;Latency-associated peptide; LAP
Accession No.	P10600
Formulation	Lyophilized from a 0.2 μm filtered solution of 4 mM HCl.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Quality Control	Purity: Greater than 95% as determined by reducing SDS-PAGE. Endotoxin: Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test.
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 < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Amino Acid Sequence	ALDTNYCFRNLEENCCVRPLYIDFRQDLGWKWVHEPKGYFANFCSGPCPYLRSADTTHSTVLGLYNTL NPEASASPCCVPQDLE PLTILYYVGRTPKVEQLSNMVVKSCKCS
Background	Transforming growth factor beta 3(TGFB3) is a member of a TGF - β superfamily which is defined by theirstructural and functional similarities. TGFB3 is secreted as a complex with LAP. This latent form of TGFB3becomes active upon cleavage by plasmin, matrix metalloproteases, thrombospondin -1, and a subset ofintegrins. It binds with high affinity to TGF- β RII, a type II serine/threonine kinase receptor. TGFB3 is involved incell differentiation, embryogenesis and development.It is believed to regulate molecules involved in cellularadhesion and extracellular matrix (ECM) formation during the process of palate development. Without TGF-β3,mammals develop a deformity known as a cleft palate.
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