

Recombinant Human TGFB3 Protein

Cat. No. TGFB3-125H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	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.
Species	Human
Source	Human Cells
ProteinLength	Ala301-Ser412(Tyr340Phe)
Description	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.
Form	Lyophilized from a 0.2 μ m filtered solution of 4 mM HCl.
AA Sequence	ALDTNYCFRNLEENCCVRPLYIDFRQDLGWKVVHEPKGYFANFCSGPCPYLRSD TTHSTVLGLYNTL NPEASASPCCVPQDLE PLTILYYVGRTPKVEQLSNMVVKSCCK

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Endotoxin	Less than 0.1 ng/ug (1 EU/ug).
Purity	>95%
Storage	Lyophilized protein should be stored at < -20 centigrade, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7 centigrade for 2-7 days. Aliquots of reconstituted samples are stable at < -20 centigrade for 3 months.
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 Statement	Purity: Greater than 95% as determined by reducing SDS-PAGE.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.

GENE INFORMATION

Gene Name	TGFB3 transforming growth factor beta 3 [Homo sapiens (human)]
Official Symbol	TGFB3
Synonyms	Transforming growth factor beta-3; TGF-beta-3; Latency-associated peptide; LAP; ARVD; LDS5; RNHF; ARVD1
Gene ID	7043

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mRNA Refseq	NM_001329938.2
Protein Refseq	NP_001316867.1
MIM	190230
UniProt ID	P10600

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