Latent TGF beta 3/Latent TGFB3 Protein, Human (Biotinylated, HEK293, His)

Cat. No.:	HY-P701080
Synonyms:	TGFB3; ARVD; TGF-beta3; TGF-β; TGFβ3; TGFβ
Species:	Human
Source:	HEK293
Accession:	P10600-1 (L24-S412)
Gene ID:	/
Molecular Weight:	43-48 kDa & 50-60 kDa

PROPERTIES

Biological Activity	Immobilized Human TGF-beta RII, mFc Tag at 0.5μg/ml (100μl/well) on the plate. Dose response curve for Biotinylated Human Latent TGF beta 3, His Tag with the EC_{50} of 73.0ng/ml determined by ELISA.
Appearance	Solution.
Formulation	Supplied as a 0.22μm filtered solution of 20mM PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	Latent Transforming growth factor beta-3 (TGF-beta-3) proprotein serves as the precursor for both the Latency-associated peptide (LAP) and the active TGF-beta-3 chains, acting as the regulatory and functional subunits, respectively. It plays a vital role in maintaining the latent state of TGF-beta-3 within the extracellular matrix. Through non-covalent association with TGF-beta-3, Latent TGF-beta-3 actively regulates the activation process by interacting with key 'milieu molecules' such as LTBP1 and LRRC32/GARP. These interactions contribute to the controlled activation of TGF-beta-3, with LTBP1 and LRRC32/GARP acting as crucial components in this regulatory mechanism. Additionally, interaction with integrins induces structural changes in the Latency-associated peptide chain, leading to the subsequent release of active TGF-beta-3. This sophisticated molecular interplay underscores the pivotal role of Latent TGF-beta-3 in orchestrating the regulated activation of TGF-beta-3 in various physiological contexts.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA