

TGF beta 1/TGFB1 Protein, Rhesus Macaque (HEK293, His)

Cat. No.:	HY-P77856
Synonyms:	CEDLAP; DPD1; TGF beta1; TGFB; TGFB1; TGFbeta; TGF-beta-1
Species:	Rhesus Macaque
Source:	HEK293
Accession:	F7HCV5 (L30-S390, C33S)
Gene ID:	106992315
Molecular Weight:	40-50/14-15 kDa

PROPERTIES

Biological Activity	Immobilized Rhesus macaque Latent TGF beta 1, His Tag at 2µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Human ITGAV&ITGB6, His Tag with the EC ₅₀ of 1.2µg/ml determined by ELISA.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Normally 5% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Transforming growth factor beta-1 (TGF-beta-1) proprotein serves as the precursor for the Latency-associated peptide (LAP) and Transforming growth factor beta-1 (TGF-beta-1) chains, with LAP acting as the regulatory subunit and TGF-beta-1 serving as the active subunit. The proprotein forms a homodimer with disulfide linkages, and upon activation, it undergoes proteolytic processing to release the mature TGF-beta-1, allowing it to exert its regulatory functions in various cellular processes, including cell growth, differentiation, and immune responses. The dimeric structure underscores the importance of the intricate interplay between LAP and TGF-beta-1 in orchestrating the multifaceted activities of TGF-beta-1 within biological systems.
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Caution: Product has not been fully validated for medical applications. For research use only.

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