

TGF beta 1/TGFB1 Protein, Human (C33S, 361a.a, HEK293, His)

Cat. No.:	HY-P70236
Synonyms:	rHuLatent TGF Beta-1-C33S, His; Transforming Growth Factor Beta-1; TGF-Beta-1; Latency-Associated Peptide; LAP; TGFB1; TGFB
Species:	Human
Source:	HEK293
Accession:	P01137 (L30-S390,C33S)
Gene ID:	7040
Molecular Weight:	38-55&13 kDa

PROPERTIES

AA Sequence	<pre> L S T S K T I D M E L V K R K R I E A I R G Q I L S K L R L A S P P S Q G E V P P G P L P E A V L A L Y N S T R D R V A G E S A E P E P E P E A D Y Y A K E V T R V L M V E T H N E I Y D K F K Q S T H S I Y M F F N T S E L R E A V P E P V L L S R A E L R L L R L K L K V E Q H V E L Y Q K Y S N N S W R Y L S N R L L A P S D S P E W L S F D V T G V V R Q W L S R G G E I E G F R L S A H C S C D S R D N T L Q V D I N G F T T G R R G D L A T I H G M N R P F L L L M A T P L E R A Q H L Q S S R H R R A L D T N Y C F S S T E K N C C V R Q L Y I D F R K D L G W K W I H E P K G Y H A N F C L G P C P Y I W S L D T Q Y S K V L A L Y N Q H N P G A S A A P C C V P Q A L E P L P I V Y Y V G R K P K V E Q L S N M I V R S C K C S </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
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. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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	Latent TGF beta 1/TGFB1 Protein promotes fibrillin-1 and -2 assembly downstream of fibronectin in mouse embryonic fibroblasts ^[3] .
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Latent TGF beta 1/TGFB1 Protein promotes esophageal squamous cell carcinoma progression through epithelial-mesenchymal transition and cancer-associated fibroblasts transformation.^[4]
Latent TGF beta 1/TGFB1 Protein plays a potential bridge between depressive disorder and glioblastoma^[5].

REFERENCES

- [1]. J Taipale, et al. Latent transforming growth factor-beta 1 associates to fibroblast extracellular matrix via latent TGF-beta binding protein. *J Cell Biol.* 1994 Jan;124(1-2):171-81.
- [2]. C Unsöld, et al. Latent TGF-beta binding protein LTBP-1 contains three potential extracellular matrix interacting domains. *J Cell Sci.* 2001 Jan;114(Pt 1):187-197.
- [3]. Matthias Przyklenk, et al. LTBP1 promotes fibrillin incorporation into the extracellular matrix. *bioRxiv.* 2022.
- [4]. Rui Cai, et al. LTBP1 promotes esophageal squamous cell carcinoma progression through epithelial-mesenchymal transition and cancer-associated fibroblasts transformation. *J Transl Med.* 2020 Mar 26;18(1):139.
- [5]. Xiaojun Fu, et al. LTBP1 plays a potential bridge between depressive disorder and glioblastoma. *J Transl Med.* 2020 Oct 15;18(1):391.
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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