

## Latent TGF beta 1/TGFB1 Protein, Human (Biotinylated, HEK293, His-Avi)

<b>Cat. No.:</b>	HY-P78214
<b>Synonyms:</b>	CEDLAP; DPD1; TGF beta1; TGFB; TGFB1; TGFBeta; TGF-beta-1; TGF β1; TGFβ; TGF-β-1
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	P01137 (L30-S390, C33S)
<b>Gene ID:</b>	7040
<b>Molecular Weight:</b>	40-50&13-15 kDa

### PROPERTIES

<b>Biological Activity</b>	Immobilized Human ITGAV&ITGB6 His at 1 µg/mL (100µL/Well) on the plate. Dose response curve for Biotinylated Human Latent TGF beta 1 His with the EC <sub>50</sub> of 0.11 ng/mL determined by ELISA.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Normally 5% trehalose is added as protectant before lyophilization.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	Latent TGF beta 1/TGFB1 Protein promotes fibrillin-1 and -2 assembly downstream of fibronectin in mouse embryonic fibroblasts <sup>[3]</sup> .
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### 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.

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[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.**

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