

# **Screening Libraries**

**Proteins** 

## **Product** Data Sheet



## TGF beta 1/TGFB1 Protein, Mouse/Rat (HEK293)

Cat. No.: HY-P70648

Synonyms: TGF-beta-1; CED; DPD1; TGFB; TGF-b1; TGFB1; CEDLAP; latency-associated peptide; TGFbeta;

TGF-beta 1 protein; transforming growth factor beta-1; TGF-β1; TGF beta1; TGFbeta 1; TGF-beta

1; TGFbeta

Species: Rat; Mouse **HEK293** Source:

P04202(A279-S390) Accession:

Gene ID: 21803

Molecular Weight: Approximately 13.0 kDa

#### **PROPERTIES**

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AA	~	മവ	11	Δ	n	~	Δ

ALDTNYCFSS TEKNCCVRQL YIDFRKDLGW KWIHEPKGYH ANFCLGPCPY IWSLDTQYSK VLALYNOHNP GASASPCCVP

QALEPLPIVY YVGRKPKVEQ LSNMIVRSCK C S

**Biological Activity** 

The ability to inhibit IL-4-dependent proliferation of TF-1 human erythroleukemic cells has an ED50 value of 5-25 pg/mL.

**Appearance** 

Lyophilized powder

**Formulation** 

Lyophilized from a 0.2 µm filtered solution of 4 mM HCl.

**Endotoxin Level** 

<1 EU/µg, determined by LAL method.

Reconsititution

It is not recommended to reconstitute to a concentration less than 100 μg/mL in 4mM HCl. 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** 

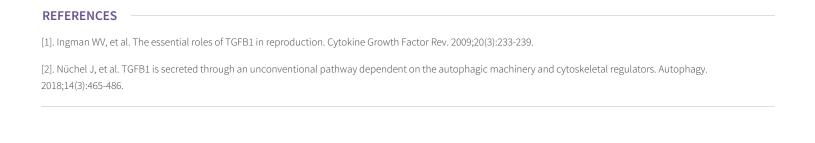
Room temperature in continental US; may vary elsewhere.

### **DESCRIPTION**

#### Background

TGFB1 (transforming growth factor beta 1) is a potent cytokine playing a driving role in development, fibrosis and cancer. It is synthesized as prodomain-growth factor complex that requires tethering to LTBP (latent transforming growth factor beta binding protein) for efficient secretion into the extracellular space. Upon release, this large latent complex is sequestered by anchorage to extracellular matrix (ECM) networks, from which the mature growth factor needs to be activated in order to reach its receptors and initiate signaling<sup>[2]</sup>.

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

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