

TGF beta 3 Protein, Human/Mouse/Rat (HEK293)

Cat. No.:	HY-P7120
Synonyms:	rHuTGF- β 3; TGFB3; LAP
Species:	Human
Source:	HEK 293
Accession:	P10600 (A301-S412)
Gene ID:	7043
Molecular Weight:	Approximately 12.7 kDa

PROPERTIES

AA Sequence	<p> A L D T N Y C F R N L E E N C C V R P L Y I D F R Q D L G W K W V H E P K G Y Y A N F C S G P C P Y L R S A D T T H S T V L G L Y N T L N P E A S A S P C C V P Q D L E P L T I L Y Y V G R T P K V E Q L S N M V V K S C K C S </p>
Biological Activity	The ED ₅₀ is <0.2 ng/mL as measured in a cell proliferation assay using mouse HT-2 cells.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against 4 mM HCl.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer. 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	<p>Transforming growth factor-β (TGF-β) is a glycoprotein that acts as a cytokine. This multifunctional cytokine has a pivotal role in the regulation of many cellular activities, such as proliferation, differentiation, and other functions, and also plays a role in immunity, cancer, heart disease, diabetes, Marfan syndrome, Loeys–Dietz syndrome, Parkinson's disease, and AIDS. Three TGF-β isoforms have been found in mammals: TGF-β1, 2, and 3, which are structurally and functionally similar. Transforming Growth Factor β3 expression increases in fetal wound healing and reduces fibronectin and collagen I and III deposition, and also improves the architecture of the neodermis which is a combination of blood vessels and connective tissue during wound healing^[1]. Transforming Growth Factor β3 has been found to have an important role in normal developmental biology including systems such as the heart, lung and breast and to display isoform-specific biology at both</p>
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the in vivo and in vitro level^[2].

REFERENCES

- [1]. Mahmoudi Rad M, et al. Expression of TGF- β 3 in isolated fibroblasts from foreskin. Rep Biochem Mol Biol. 2015 Apr;3(2):76-81.
- [2]. Lavery HG, et al. TGF-beta3 and cancer: a review. Cytokine Growth Factor Rev. 2009 Aug;20(4):305-17.
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Caution: Product has not been fully validated for medical applications. For research use only.

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