

Product Data Sheet

TGF beta 1/TGFB1 Protein, Oncorhynchus mykiss (P. pastoris, His)

Cat. No.:	HY-P700474
Synonyms:	TGF-beta-1; TGFB1; TGFB; rHuTGF-β1
Species:	Others
Source:	P. pastoris
Accession:	O93449 (Q271-S382)
Gene ID:	100136774
Molecular Weight:	15 kDa

PROPERTIES	
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AA Sequence	QTTTEEICSD KSESCCVRKL YIDFRKDLGW KWIHEPTGYF ANYCIGPCTY IWNTENKYSQ VLALYKHHNP GASAQPCCVP QVLEPLPIIY YVGRQHKVEQ LSNMIVKSCR CS
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 $\mu\text{g}/\text{mL}$ in ddH_2O.
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	The Transforming Growth Factor Beta-1 (TGFB1) proprotein serves as a precursor for both the Latency-associated peptide
	(LAP) and the active Transforming Growth Factor Beta-1 (TGF-beta-1) chains, which respectively constitute the regulatory
	and active subunits of TGF-beta-1. It plays a crucial role in maintaining the TGF-beta-1 chain in a latent state during storage
	within the extracellular matrix. Through non-covalent association with TGF-beta-1, it regulates the activation of TGF-beta-1
	by interacting with 'milieu molecules' such as LTBP1, LRRC32/GARP, and LRRC33/NRROS. These interactions are pivotal in
	controlling the activation of TGF-beta-1. Moreover, the proprotein's interaction with integrins (ITGAV:ITGB6 or ITGAV:ITGB8)
	leads to the distortion of the Latency-associated peptide chain, resulting in the subsequent release of active TGF-beta-1.

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

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