

TGF alpha/TGFA Protein, Sheep (*P. pastoris*, GST)

Cat. No.:	HY-P700491
Synonyms:	EGF-like TGF; ETGFTGF type 1
Species:	Sheep
Source:	<i>P. pastoris</i>
Accession:	P98135 (E24-Q97)
Gene ID:	443307
Molecular Weight:	34.9 kDa

PROPERTIES

AA Sequence	E N S T S A L S D P P V A A A V V S H F N D C P D S H T Q F C F H G T C R F L L Q E E K P A C V C H S G Y V G A R C E H A D L L A V V A A S Q K K Q
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/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
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	<p>The TGF alpha/TGFA protein, a mitogenic polypeptide, exhibits the ability to bind to the EGF receptor/EGFR and acts synergistically with TGF beta, promoting anchorage-independent cell proliferation in soft agar. Notably, TGF alpha/TGFA engages in interactions with the PDZ domains of MAGI3, SDCBP, and SNTA1. The association with SDCBP is essential for effective targeting to the cell surface. In its immature form within the endoplasmic reticulum, characterized by a prosegment and lacking full N-glycosylation, TGF alpha/TGFA interacts with CNIH. Furthermore, in the Golgi apparatus, it may form a complex with CNIH and GORASP2. Additionally, through its cytoplasmic C-terminal domain, TGF alpha/TGFA interacts with NKD2, further expanding its potential functional roles in diverse cellular compartments and interactions.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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