

TGF alpha/TGFA Protein, Mouse (HEK293, Fc)

Cat. No.:	HY-P77857
Synonyms:	ETGF; TGF-alpha; TGF type 1; TGFA
Species:	Mouse
Source:	HEK293
Accession:	P48030 (V39-A88)
Gene ID:	21802
Molecular Weight:	38-45 kDa

PROPERTIES

Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.22 μ m filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
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 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	TGF alpha, a mitogenic polypeptide, exhibits the ability to bind to the EGF receptor (EGFR) and synergistically collaborate with TGF beta to facilitate anchorage-independent cell proliferation in soft agar. It interacts with the PDZ domains of SDCBP and SNTA1, with the former being crucial for its localization to the cell surface. In its immature form, present in the endoplasmic reticulum and characterized by a prosegment and partial N-glycosylation, TGF alpha interacts with CNIH. Within the Golgi apparatus, it may form a complex with CNIH and GORASP2. Additionally, TGF alpha interacts with NKD2 through its cytoplasmic C-terminal domain and with MAGI3.
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Caution: Product has not been fully validated for medical applications. For research use only.

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