

## TGF alpha/TGFA Protein, Human (CHO)

Cat. No.:	HY-P7296
Synonyms:	rHuTGF- $\alpha$ ; ETGF; TGFA
Species:	Human
Source:	CHO
Accession:	P01135 (V40-A89)
Gene ID:	7039
Molecular Weight:	8-10 kDa

### PROPERTIES

AA Sequence	V V S H F N D C P D    S H T Q F C F H G T    C R F L V Q E D K P    A C V C H S G Y V G A R C E H A D L L A
Biological Activity	The ED <sub>50</sub> is <0.4 ng/mL as measured by 3T3 cells.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against PBS.
Endotoxin Level	<0.2 EU/ $\mu$ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> O. 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	Transforming growth factors (TGF's) are polypeptides that can confer phenotypic transformation to several normal cells. TGF- $\alpha$ binds to the receptor for epidermal growth factor (EGF) and has been isolated from a variety of tumor cells. TGF- $\alpha$ is synthesized in embryos during early fetal development, in several virally transformed cells, and in a large variety of human tumors <sup>[1]</sup> . TGF- $\alpha$ is a member of the epidermal growth factor family of mitogens and associated with progression of transformed properties in human colon cancer cells <sup>[2]</sup> .
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### REFERENCES

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[1]. Schreiber AB, et al. Transforming growth factor-alpha: a more potent angiogenic mediator than epidermal growth factor. Science. 1986 Jun 6;232(4755):1250-3.

[2]. DuBois RN, et al. Regulation of eicosanoid production and mitogenesis in rat intestinal epithelial cells by transforming growth factor-alpha and phorbol ester. J Clin Invest. 1994 Feb;93(2):493-8.

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

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