

## Overview

<b>Synonyms</b>	Transforming Growth Factor- $\pm$ , Sacroma growth factor, TGF-type I, ETGF
<b>Description</b>	<b>Protransforming Growth Factor-alpha (TGF-alpha)</b> , also known as sarcoma growth factor, TGF-type I and ETGF, is a member of the EGF family of cytokines. It is expressed in monocytes, brain cells, keratinocytes and various tumor cells. ProTGF-alpha signals through EGFR and acts synergistically with TGF-beta to promote the proliferation of a wide range of epidermal and epithelial cells. It may function as either a membrane-bound ligand or a soluble ligand. Membrane-bound proTGF-alpha plays a role in cell-cell adhesion and juxtacrine stimulation of adjacent cells. The soluble form of the cytokine is released from the membrane-bound form by proteolytic cleavage and acts as a mitogen for cell proliferation.
<b>Accession No</b>	P01135
<b>Species</b>	Human
<b>Source</b>	CHO
<b>Biological Activity</b>	ED <sub>50</sub> < 0.4 ng/ml, measured in a cell proliferation assay using 3T3 cells.
<b>Sequence</b>	VVSHFNDCPD SHTQFCFHGT CRFLVQEDKP ACVCHSGYVG ARCEHADLLA

## Properties

<b>Measured Molecular Weight</b>	8-10 kDa, observed by reducing SDS-PAGE.
<b>Purity</b>	> 95% as analyzed by SDS-PAGE and HPLC.
<b>Formulation</b>	Lyophilized after extensive dialysis against PBS.
<b>Reconstitution</b>	Reconstituted in ddH <sub>2</sub> O or PBS at 100 $\mu$ g/ml.
<b>Endotoxin Level</b>	< 0.2 EU/ $\mu$ g, determined by LAL method.
<b>Storage</b>	Lyophilized recombinant <b>Human TGF-alpha</b> remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Human TGF-alpha should be stable up to 1 week at 4°C or up to 2 months at -20°C.
<b>Note</b>	For research use only

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