

Active Recombinant Human TGFA Protein

Cat. No. TGFA-205T **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TGFA Protein without tag was expressed in CHO.
Species	Human
Source	CHO
Description	Protransforming Growth Factor-alpha (TGF-alpha), 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.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 0.4 ng/mL, measured in a cell proliferation assay using 3T3 cells.
Molecular Mass	8-10 kDa, observed by reducing SDS-PAGE.
AA Sequence	VVSHFNDCPDSHTQFCFHGTCRFLVQEDKPACVCHSGYVGARCEHADLLA
Endotoxin	< 0.2 EU/μg, determined by LAL method.

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Purity	> 95% as analyzed by SDS-PAGE and HPLC.
Storage	Lyophilized recombinant Human TGF-alpha remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, Human TGF-alpha Receptor should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH2O or PBS at 100 µg/mL.

GENE INFORMATION

Gene Name	TGFA transforming growth factor alpha [Homo sapiens (human)]
Official Symbol	TGFA
Synonyms	TGFA; transforming growth factor alpha; protransforming growth factor alpha; TGF-alpha
Gene ID	7039
mRNA Refseq	NM_003236
Protein Refseq	NP_003227
MIM	190170
UniProt ID	P01135

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