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Datasheet for ABIN2018416 TGFA Protein (AA 40-89)

Overview

Quantity:	25 µg
Target:	TGFA
Protein Characteristics:	AA 40-89
Origin:	Human
Source:	CHO Cells
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Characteristics:	ED50 < 0.4 ng/mL, measured in a cell proliferation assay using 3T3 cells.
Purity:	> 95 % as analyzed by SDS-PAGE and HPLC.
Endotoxin Level:	< 0.2 EU/µg, determined by LAL method.

Target Details

Target:	TGFA
Alternative Name:	Transforming Growth Factor-alpha (TGF-Alpha) (TGFA Products)
Background:	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.

Target Details

Membrane-bound proTGF- α 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.

Synonyms: Transforming Growth Factor- α , Sacroma growth factor, TGF-type I, ETGF

Molecular Weight: 8-10 kDa, observed by reducing SDS-PAGE.

UniProt: [P01135](#)

Pathways: [NF-kappaB Signaling](#), [RTK Signaling](#), [EGFR Signaling Pathway](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Reconstituted in ddH₂O or PBS at 100 μ g/mL.

Buffer: Lyophilized after extensive dialysis against PBS.

Storage: -80 °C

Storage Comment: Lyophilized recombinant Human TGF- α remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, Human TGF- α Receptor should be stable up to 1 week at 4 °C or up to 2 months at -20 °C.

Expiry Date: 6 months