

DATASHEET Version 20181206

TGF-α, Human

Cat. No.: Z03151-5

Size: 5.0 ug

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

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.

Amino Acid Sequence:

00001 VVSHFNDCPD SHTQFCFHGT CRFLVQEDKP ACVCHSGYVG

00041 ARCEHADLLA

Source: CHO Species: Human

Biological Activity: ED₅₀ < 0.4 ng/ml, measured in

a cell proliferation assay using 3T3 cells.

Molecular Weight: 8-10 kDa, observed by reducing

SDS-PAGE.

Formulation: Lyophilized after extensive dialysis

against PBS.

Reconstitution: Reconstituted in ddH₂O or PBS at

100 μg/ml.

Purity: > 95% as analyzed by SDS-PAGE and

HPLC.

Endotoxin Level: $< 0.2 \; EU/\mu g$, determined by LAL

method.

Storage: Lyophilized recombinant Human TGF-alpha 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.