

DATASHEET
Version 20181206**TGF- α , Human****Cat. No.:** Z03151-25**Size:** 25.0 ug**Synonyms:** Transforming Growth Factor- α ,
Sarcoma 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/µg, 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.