

Human TGF- α , Tag Free Protein

HA211318



Product name:	Human TGF- α , Tag Free
Species reactivity:	Human
Bio-Activity:	Testing in progress.
Protein construction description:	A DNA sequence encoding the human TGF- α protein (P01135-1) (Val 40-Ala 89) was expressed with tag free.

Background:	Transforming growth factor alpha (TGF- α) is a protein that in humans is encoded by the TGFA gene. As a member of the epidermal growth factor (EGF) family, TGF- α is a mitogenic polypeptide. The protein becomes activated when binding to receptors capable of protein kinase activity for cellular signaling. TGF- α is a transforming growth factor that is a ligand for the epidermal growth factor receptor, which activates a signaling pathway for cell proliferation, differentiation and development. This protein may act as either a transmembrane-bound ligand or a soluble ligand. This gene has been associated with many types of cancers, and it may also be involved in some cases of cleft lip/palate. TGF- α can be produced in macrophages, brain cells, and keratinocytes. TGF- α induces epithelial development. Considering that TGF- α is a member of the EGF family, the biological actions of TGF- α and EGF are similar. For instance, TGF- α and EGF bind to the same receptor. When TGF- α binds to EGFR it can initiate multiple cell proliferation events. Cell proliferation events that involve TGF- α bound to EGFR include wound healing and embryogenesis.
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Purity:	>90% as determined by SDS-PAGE.
Endotoxin:	Less than 1.0 EU per μ g by the LAL method.
Fragment region:	TGF- α (40-89)
Source:	HEK293
Accession:	P01135-1
Predicted molecular mass:	6.3 kD
Formulation:	Lyophilized from a 0.2 μ m filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.
Reconstitution:	Reconstitute at 250 μ g/ml in sterile water.
Storage:	Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.

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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

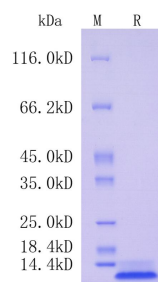


Fig1: Protein on SDS-PAGE under reducing (R) condition.

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