

# Human TGF alpha protein, His tag (active)

# Cat. No. GTX00100-pro

Application	Functional Assay	Package 10 μg
Species	Human	13

#### APPLICATION

# **Application Note**

Transforming growth factor alpha (TGF- $\alpha$ ), a ligand for the epidermal growth factor receptor, which activates a signaling pathway for cell proliferation, differentiation and development. To test the effect of TGF- $\alpha$  on cell proliferation of 3T3 fibroblasts, 3T3 cells were seeded into triplicate wells of 96-well plates at a density of 2, 000 cells/well and allowed to attach overnight, then the medium was replaced with serum-free standard DMEM prior to the addition of various concentrations of TGF- $\alpha$ . After incubated for 72h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10  $\mu$ l of CCK-8 solution was added to each well of the plate, then measure the absorbance at 450nm using a microplate reader after incubating the plate for 1-4 hours at 37°C. Cell proliferation of 3T3 cells after incubation with TGF- $\alpha$  for 72h observed by inverted microscope. And TGF- $\alpha$  significantly promoted cell proliferation of 3T3 cells. The ED<sub>50</sub> for this effect is typically 0. 6198-8. 210 ng/ml.

**Observed MW** 15 kDa.

PROPERTIES		
Form	Lyophilized powder	
Buffer	Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose.	
Preservative	ProClin 300	
Storage	For short-term storage (1-2 weeks), store at 4°C. For long-term storage, store at -20°C or below. After reconstitution, keep as concentrated solution. Avoid freeze-thaw cycles.	
Region/Sequence	N-terminal His-Tag; Glu24~Ala98 (NP_001093161.1)	
Expression System	E. coli	
Purity	> 97%	
Endotoxin	< 1 EU/µg	
Conjugation	Unconjugated	
Note	For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.	



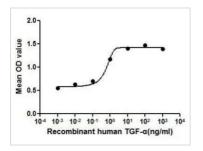
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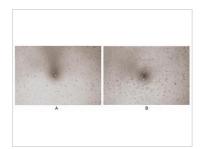


# DATA IMAGES



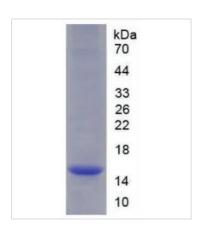
# **GTX00100-pro Functional Assay Image**

The dose effect curve of GTX00100-pro Human TGF alpha protein (active) on 3T3 cells. After incubation of Human TGF alpha protein (active) for 72 hrs, cell proliferation was measured by Cell Counting Kit-8 (CCK-8).



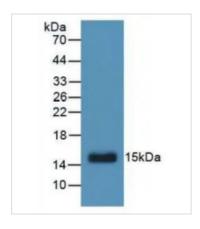
# **GTX00100-pro Functional Assay Image**

Cell proliferation effect of GTX00100-pro Human TGF alpha protein (active). (A) Unstimulated 3T3 cells cultured in serum-free DMEM for 72hrs. (B) 3T3 cells cultured in DMEM, stimulated with 1 ng/ml TGF alpha for 72hrs.



#### GTX00100-pro Image

SDS-PAGE analysis of GTX00100-pro Human TGF alpha protein (active).



# GTX00100-pro Image

WB analysis of GTX00100-pro Human TGF alpha protein (active).



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