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Product Datasheet

Human TGF alpha protein, His tag (active), Unconjugated GTX00100-PRO

Article Name	Human TGF alpha protein, His tag (active), Unconjugated
Biozol Catalog Number	GTX00100-PRO
Supplier Catalog Number	GTX00100-pro
Alternative Catalog Number	GTX00100-PRO-10
Manufacturer	GeneTex
Category	Proteine/Peptide
Application	FA
Species Reactivity	Human
Conjugation	Unconjugated
NCBI	7039
UniProt	P01135
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, ProClin 300.
Expression System	E. coli
Form	Lyophilized powder
Sequence	N-terminal His-Tag, Glu24~Ala98 (NP_001093161.1)

Application Notes	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 µl 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 37C. 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 ED50 for this effect is typically 0. 6198-8. 210 ng/ml.
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