

Active Recombinant Human TGFA protein, His-tagged

Cat. No. TGFA-2763H Lot. No. (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human TGFA protein(P01135)(24~98 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	24-98 aa
Form	Lyophilized from sterile 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Bio-activity	Transforming growth factor alpha (TGF-α), 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-α 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-α. After incubated for 72h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10μ 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. The dose-effect curve of TGF-α was shown. It was obvious that TGF-α significantly promoted cell proliferation of 3T3 cells. The ED50 for this effect is typically 0.6198 to 8.210ng/mL.

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Molecular Mass	11.7kDa
Purity	> 97% as determined by SDS-PAGE.
Storage	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

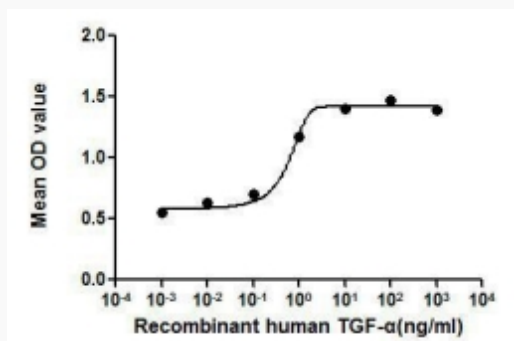
Gene Name	TGFA transforming growth factor, alpha [Homo sapiens]
Official Symbol	TGFA
Synonyms	TGFA; transforming growth factor, alpha; protransforming growth factor alpha; TGF-alpha; TFGA;
Gene ID	7039
mRNA Refseq	NM_001099691
Protein Refseq	NP_001093161
MIM	190170
UniProt ID	P01135

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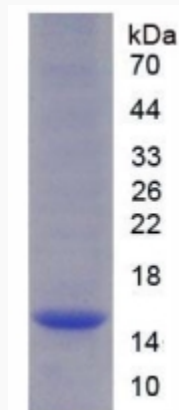
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Activity



SDS-PAGE



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