

Active Recombinant Human TGFA

Cat. No. TGFA-538H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human TGFA (P01135) full-length recombinant protein expressed in Hi-5 cells.
Species	Human
Source	Hi-5 Insect Cells
Description	Transforming growth factor alpha (TGF- μ) is upregulated in some human cancers. It is produced in macrophages, brain cells, and keratinocytes, and induces epithelial development. It is closely related to EGF, and can also bind to the EGF receptor with similar effects. TGF μ stimulates neural cell proliferation in the adult injured brain.
Theoretical MW (kDa)	25
Form	Lyophilized
Preparation Method	Insect cell (Hi-5) expression system
Purity	μ 98% by SDS-PAGE, μ 98% by HPLC
Endotoxin Level	< 0.1 ng/ug
Activity	The ED50 as determined by the ability of TGF-beta2 to inhibit the mouse IL-4-dependent proliferation of mouse HT-2 cells is < 0.2 ng/mL, corresponding to a specific activity of > 5 x 10 ⁶ units/mg.

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Application	SDS-PAGE
Storage Buffer	Lyophilized from sodium citrate, pH 3.5
Storage	Store at -20°C on dry atmosphere.
Unitprot ID	P01135

GENE INFORMATION

Gene Name	TGFA transforming growth factor, alpha [Homo sapiens]
Official Symbol	TGFA
Synonyms	TGFA; transforming growth factor, alpha; TFGA; protransforming growth factor alpha; transforming growth factor-alpha; TGF-alpha; EGF-like TGF; TGF type 1; ETGF
Gene ID	7039
mRNA Refseq	NM_001099691
Protein Refseq	NP_001093161
MIM	190170
Chromosome Location	2p13
Pathway	ErbB signaling pathway; Glioma; Non-small cell lung cancer; Pancreatic cancer; Pathways in cancer; Prostate cancer; Renal cell carcinoma
Function	MAP kinase kinase activity; epidermal growth factor receptor binding; growth factor

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activity; protein binding; signal transducer activity

PDB rendering
based on 1mox.

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