

## Active Recombinant Human TGFA

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

### SPECIFICATION

<b>Product Overview</b>	Human TGFA (P01135) full-length recombinant protein expressed in Hi-5 cells.
<b>Species</b>	Human
<b>Source</b>	Hi-5 Insect Cells
<b>Description</b>	Transforming growth factor alpha (TGF- $\mu$ ) 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 $\mu$ stimulates neural cell proliferation in the adult injured brain.
<b>Theoretical MW (kDa)</b>	25
<b>Form</b>	Lyophilized
<b>Preparation Method</b>	Insect cell (Hi-5) expression system
<b>Purity</b>	$\mu$ 98% by SDS-PAGE, $\mu$ 98% by HPLC
<b>Endotoxin Level</b>	< 0.1 ng/ug
<b>Activity</b>	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 <sup>6</sup> units/mg.

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

## GENE INFORMATION

<b>Gene Name</b>	TGFA transforming growth factor, alpha [ Homo sapiens ]
<b>Official Symbol</b>	TGFA
<b>Synonyms</b>	TGFA; transforming growth factor, alpha; TFGA; protransforming growth factor alpha; transforming growth factor-alpha; TGF-alpha; EGF-like TGF; TGF type 1; ETGF
<b>Gene ID</b>	<a href="#">7039</a>
<b>mRNA Refseq</b>	<a href="#">NM_001099691</a>
<b>Protein Refseq</b>	<a href="#">NP_001093161</a>
<b>MIM</b>	<a href="#">190170</a>
<b>Chromosome Location</b>	2p13
<b>Pathway</b>	ErbB signaling pathway; Glioma; Non-small cell lung cancer; Pancreatic cancer; Pathways in cancer; Prostate cancer; Renal cell carcinoma
<b>Function</b>	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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