

## Recombinant Human Transforming Growth Factor, Beta 2

Cat. No. TGFB2-348H Lot. No. (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	Mammalian Cells
<b>Description</b>	Transforming growth factor-beta 2 (TGF-β2) is a secreted protein known as a potent cytokine that modulates embryonic development, bone formation, mammary development, wound healing, hematopoiesis, cell cycle progression and the production of the extracellular matrix.
<b>Molecular Weight</b>	The predicted molecular weight of Recombinant Human TGF-β2 is Mr 25 kDa.
<b>State Of Matter</b>	Lyophilized.
<b>Purity</b>	>97% by SDS Page and analyzed by silver stain.
<b>Endotoxin</b>	<0.1 ng per 1 g as determined by the LAL method.
<b>Biological Activity</b>	The biological activity of Human Transforming Growth Factor Beta 2 is determined by its ability to inhibit the mouse IL-4-dependent proliferation of mouse HT-2 cells. The ED50 was found to be <0.2 ng/ml, corresponding to a specific activity of >5 x 10 <sup>6</sup> units/mg.
<b>Storage And Stability</b>	This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated

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Freeze Thaw Cycles.

## GENE INFORMATION

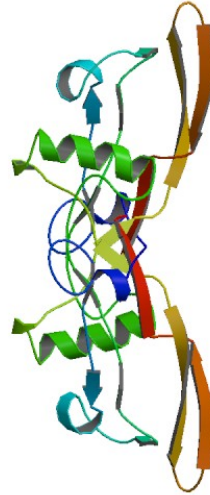
<b>Gene Name</b>	TGFB2 transforming growth factor, beta 2 [ Homo sapiens ]
<b>Synonyms</b>	TGFB2; transforming growth factor, beta 2; MGC116892; TGF-beta2; transforming growth factor, beta 2
<b>Gene ID</b>	7042
<b>mRNA Refseq</b>	NM_001135599
<b>Protein Refseq</b>	NP_001129071
<b>MIM</b>	190220
<b>UniProt ID</b>	P61812
<b>Chromosome Location</b>	1q41
<b>Pathway</b>	Cell cycle; Chronic myeloid leukemia; Cytokine-cytokine receptor interaction; Dilated cardiomyopathy; Hypertrophic cardiomyopathy (HCM); MAPK signaling pathway; Pathways in cancer; Renal cell carcinoma; TGF-beta signaling pathway; Hemostasis
<b>Function</b>	beta-amyloid binding; cytokine activity; protein heterodimerization activity; growth factor activity; type II transforming growth factor beta receptor binding; receptor signaling protein serine/threonine kinase activity

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