

## Active Recombinant Human TGFB2 Protein, Animal Free

Cat. No. TGFB2-47H    Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human TGFB2 Protein without tag was expressed in Human cells. Animal Free and Xeno Free
<b>Species</b>	Human
<b>Source</b>	Human Cells
<b>Description</b>	<p>Transforming growth factor beta 2 (TGF-β2) is one of three closely related mammalian members of the large TGFβ superfamily, TGF-β1, β2, and β3, signal through the same receptor and elicit similar biological responses. TGF-β2 is expressed in keratinocytes, granulosa cells, astrocytes, osteoblasts, mammary cells, and various cancer cells. TGF-β2 is secreted and complexed with two other proteins, LAP and TGFβP, and requires proteolytic cleavage to be active. Human TGF-β2 is a secreted, homodimer linked by intermolecular disulfide bonds that plays a role in many cellular processes, including embryogenesis and angiostasis. TGF-β2 also plays an extensive role in prenatal development.</p>
<b>Bio-activity</b>	The activity was measured by its ability to inhibit the IL-4 induced proliferation in mouse HT-2 cells (BALB/c spleen activated by sheep erythrocytes in the presence of IL-2).
<b>Molecular Mass</b>	25 kDa
<b>Endotoxin</b>	<0.5 EU/ μg

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<b>Purity</b>	High Purity, >95% by SDS-PAGE
<b>Stability</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. In general: 12 months from date of receipt, -20 to -80 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -80 centigrade under sterile conditions after reconstitution.
<b>Storage Buffer</b>	Lyophilized from a 0.2 µm filtered solution in PBS without carrier protein
<b>Reconstitution</b>	Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile 4 mM HCl containing at least 0.1% human or bovine serum albumin.

## GENE INFORMATION

<b>Gene Name</b>	TGFB2 transforming growth factor, beta 2 [ Homo sapiens (human) ]
<b>Official Symbol</b>	TGFB2
<b>Synonyms</b>	TGFB2; transforming growth factor, beta 2; transforming growth factor beta-2; G-TSF; cetermin; polyergin; BSC-1 cell growth inhibitor; glioblastoma-derived T-cell suppressor factor; TGF-beta2; MGC116892;
<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

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