Active Recombinant Human TGFB2 Protein, Animal Free

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

SPECIFICATION

Product Overview	Recombinant Human TGFB2 Protein without tag was expressed in Human cells. Animal Free and Xeno Free
Species	Human
Source	Human Cells
Description	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 TGFBP, 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.
Bio-activity	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).
Molecular Mass	25 kDa
Endotoxin	<0.5 EU/ μg

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Purity	High Purity, >95% by SDS-PAGE
Stability	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.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution in PBS without carrier protein
Reconstitution	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

Gene Name	TGFB2 transforming growth factor, beta 2 [Homo sapiens (human)]
Official Symbol	TGFB2
Synonyms	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;
Gene ID	7042
mRNA Refseq	NM_001135599
Protein Refseq	NP_001129071
MIM	190220
UniProt ID	P61812

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