

## Active Recombinant Human TGFB2, Animal Free

Cat. No. TGFB2-127H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human TGF-beta2 is a 27.08 kDa protein composed of two identical 118 amino acid polypeptide chains linked by a single disulphide bond. Human recombinant protein expressed in <i>Nicotiana benthamiana</i> . Recombinant human TGF-beta-2 contains a 6-His-tag at the N-terminal end, is produced by transient expression in non-transgenic plants and is purified by sequential chromatography (FPLC). This product contains no animal-derived components or impurities. Animal free product.
<b>Species</b>	Human
<b>Source</b>	<i>Nicotiana Benthamiana</i>
<b>Description</b>	Recombinant human TGF-beta2 is a 27.08 kDa protein composed of two identical 118 amino acid peptide chains linked by a single disulphide bond. Transforming growth factor-beta is a family of five related cytokines that have been shown on a wide variety of normal and neoplastic cells, indicating the importance of these homodimer proteins as multi-functional regulators of cellular activity. The three mammalian isoforms of TGF-beta (TGF-beta1, TGF-beta2 and TGF-beta3) signal through the same receptor and elicit similar biological responses. They are involved in physiological processes as embryogenesis, tissue remodelling and wound healing.
<b>Form</b>	Lyophilized from a Tris HCl 0.05M buffer at pH 7.4.
<b>Bio-activity</b>	The biological activity of TGF-beta2 is measured in culture by its ability to inhibit the mink lung epithelial (Mv1Lu) cells proliferation. ED50 ≤ 50ng/ml

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<b>Molecular Mass</b>	Recombinant human TGF-beta2 is a 27.08 kDa protein composed of two identical 118 amino acid polypeptide chains linked by a single disulphide bond.
<b>AA Sequence</b>	HHHHHHALDAAYCFRNVQDNCCLRPLYIDFKRDLGWKWIHEPKGYNANFCAGACP YLWSSDTQHRSRVLSLYNTIN PEASASPCCVSQDLEPLTILYYIGKTPKIEQLSNMIVK SCKCS
<b>Endotoxin</b>	< 0.04="" eu="" ug="" protein="" (lal="">
<b>Purity</b>	>97% by SDS-PAGE gel
<b>Applications</b>	Cell culture, Western blot
<b>Storage</b>	This lyophilized preparation is stable at 2-8o C for short term, long storage it should be kept at -20oC. Reconstituted protein should be stored in working aliquots at -20°C. It is recommended to add a carrier protein (0.1% HSA or BSA). Repeated freezing and thawing is not recommended.
<b>Reconstitution</b>	Lyophilized protein should be reconstituted in water to a concentration of 25-50 ng / ul. Due to the protein nature, dimmers and multimers may be observed. Upon reconstitution, It can be stored in working aliquots at -20°C for future use. Optimal reconstitution please follow batch Quality Control sheet instructions.

## GENE INFORMATION

<b>Gene Name</b>	TGFB2 transforming growth factor, beta 2 [ Homo sapiens ]
<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

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suppressor factor; TGF-beta2; MGC116892;

**Gene ID**

7042

**mRNA Refseq**

NM\_001135599

**Protein Refseq**

NP\_001129071

**MIM**

190220

**UniProt ID**

P61812

**Chromosome  
Location**

1q41

**Pathway**


ATF-2 transcription factor network, organism-specific biosystem; Amoebiasis, organism-specific biosystem; Amoebiasis, conserved biosystem; Cell cycle, organism-specific biosystem; Cell cycle, conserved biosystem; Chagas disease (American trypanosomiasis), organism-specific biosystem; Chagas disease (American trypanosomiasis), conserved biosystem;

**Function**

beta-amyloid binding; cytokine activity; growth factor activity; protein binding; contributes\_to protein binding; protein heterodimerization activity; protein homodimerization activity; receptor binding; receptor signaling protein serine/threonine kinase activity; transforming growth factor beta receptor binding; type II transforming growth factor beta receptor binding; type II transforming growth factor beta receptor binding;

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