

Active Recombinant Human TGFB2, His-tagged

Cat. No. TGFB2-22H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TGFB2, expressed in <i>Nicotiana benthamiana</i> .
Species	Human
Source	<i>Nicotiana Benthamiana</i>
Description	TGFB2 is a 27.08 kDa protein having two identical 118 amino acid peptide chains linked by a single disulfide bond. TGFB2 is part of a family of five related cytokines that have an extensive variation of normal and neoplastic cells, indicating the importance of these homo-dimer proteins as multi-functional regulators of cellular activity. The three mammalian isoforms of TGF- β (TGFb1, TGFb2 and TGFb3) signal through the same receptor and stimulate similar biological responses. They are involved in physiological processes as embryogenesis, tissue remodelling and wound healing.
Form	Lyophilized from a concentrated (1mg/ml) solution containing 50mM Tris-HCl pH-7.4.
Bio-activity	The biological activity of TGFB2 is measured in culture by its ability to inhibit the mink lung epithelial (Mv1Lu) cells proliferation. ED50 < 40ng/ml, corresponding to a specific activity of 25,000 >
Molecular Mass	TGFB2 Human Recombinant produced in plants is a homodimeric polypeptide chain containing 2 x 118 amino acids and having a total molecular mass of 27.08kDa. The TGFB2 is fused to 6xHis Tag at N-terminus and purified by proprietary chromatographic techniques.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	Greater than 97.0% as determined by SDS-PAGE.
Unit Definition	HHHHHHALDAAYCFRNVQDNCCLRPLYIDFKRDLGWKWIHEPKGYNANFCAGACP YLWSSDTQHRSRVLSLYNTIN PEASAPCCVSQDLEPLTILYYIGKTPKIEQLSNMIVK SCKCS.
Usage	FOR RESEARCH USE ONLY
Quality Control Test	Lyophilized TGFB2 although stable at room temperature for 3 weeks, should be stored desiccated below -18 centigrade. Upon reconstitution TGFB2 Human should be stored at 4 centigrade between 2-7 days and for future use below -18 centigrade. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Reconstitution	It is recommended to reconstitute the lyophilized TGFB2 in sterile 18M ² -cm H ₂ O not less than 1µg/40µl, which can then be further diluted to other aqueous solutions.
Warning	Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	TGFB2 transforming growth factor, beta 2 [Homo sapiens]
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

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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;