

Recombinant Human TGFB2

Cat. No. TGFB2-31244TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant full length protein (Human) expressed using (BTI-Tn-5B1-4) cells

Species Human

Description

This gene encodes a member of the transforming growth factor beta (TGFB) family of cytokines, which are multifunctional peptides that regulate proliferation, differentiation, adhesion, migration, and other functions in many cell types by transducing their signal through combinations of transmembrane type I and type II receptors (TGFBR1 and TGFBR2) and their downstream effectors, the SMAD proteins. Disruption of the TGFB/SMAD pathway has been implicated in a variety of human cancers. The encoded protein is secreted and has suppressive effects of interleukin-2 dependent T-cell growth. Translocation t(1;7)(q41;p21) between this gene and HDAC9 is associated with Peters anomaly, a congenital defect of the anterior chamber of the eye. The knockout mice lacking this gene show perinatal mortality and a wide range of developmental, including cardiac, defects. Alternatively spliced transcript variants encoding different isoforms have been identified.

Form

Lyophilised: Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1- 1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer conta

Purity >95% by SDS-PAGE

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Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	hTGF-b2 (Human Transforming Growth Factor beta 2) is a 25.0 kDa protein with each subunit containing 112 amino acid residues:ALDAAAYCFRNVQDNCCLRPLYIDFKRDL GWKWIHEPKGYNANFCAG ACPYLWSSDTQHSRVLSLYNTINPEASASPCCVSQDL EPLTILYYIGKTPKIEQLSNMIVKSKCS
Sequence Similarities	Belongs to the TGF-beta family.
Full Length	Full L.

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;
Gene ID	7042
mRNA Refseq	NM_001135599
Protein Refseq	NP_001129071
MIM	190220
Uniprot ID	P61812
Chromosome	1q41

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Location**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;

Function

beta-amyloid binding; cytokine activity; growth factor activity; protein binding; contributes_to protein binding;

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