TGF-Beta 2 (TGF-beta2) Mouse/Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	TGF-beta 2 (TGF-beta2), Recombinant Protein
Full Product Name	Recombinant Mouse/Rat TGF-beta 2
Product Gene Name	TGF-beta2 recombinant protein
Product Synonym Names	TGFB2; BSC-1 cell growth inhibitor; Cetermin; Glioblastoma-derived T-cell suppressor factor; G-TSF; MGC116892; Polyergin; TGF-beta2; TGF-beta-2; transforming growth factor beta-2
Sequence	Ala303-Ser 414
Host	Mammalian Cells
Form/Format	Lyophilized from a 0.2um filtered solution of 4mM HCl
Purity/Purification	Greater than 95% as determined by SDS-PAGE.
Preparation and Storage	The lyophilized protein is stable at -20 degree C for up to 1 year. After reconstitution, the protein solution is stable at -20 to -80 degree C for 3 months or 1 week at 2 to 8 degree C under sterile conditions. For extended storage, it is recommended to further dilute in working aliquots, avoid repeated freeze/thaw cycle.
Molecular Weight	47,589 Da
3D Structure	ModBase 3D Structure for P27090
Species	Mouse/Rat
Endotoxin	< 1 EU/ug as determined by LAL test.
Reconstitution	Centrifuge the vial at 10000rpm for 30s before opening, reconstitute in 4 mM HCl to concentration of 0.1-1mg/ml by gently pipetting 2-3 times, don't vortex.
Product Categories/Family for TGF-beta2 recombinant protein	cytokines
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for TGF-beta2 recombinant protein	Western Blot (WB), ELISA (EIA)
Related Product Information for TGF-beta2 recombinant protein	MBS7621635 is a recombinant protein targeting TGF-beta2. Also known as Recombinant Mouse/Rat TGF-beta 2. Host: Mammalian Cells.
Other Notes	Small volumes of TGF-beta2 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TGF-beta2. It may not necessarily be applicable to this product.

NCBI GI #	342187041
NCBI GeneID	21808
NCBI Accession #	P27090.2
UniProt Primary Accession #	P27090

UniProt Secondary Accession #	Q91VP5
UniProt Related Accession #	P27090
NCBI Official Full Name	Transforming growth factor beta-2
NCBI Official Synonym Full Names	transforming growth factor, beta 2
NCBI Official Symbol	Tgfb2
NCBI Official Synonym Symbols	Tgfb-2; BB105277; Tgf-beta2
UniProt Protein Name	Transforming growth factor beta-2
Protein Family	Transforming growth factor
UniProt Gene Name	Tgfb2
UniProt Synonym Gene Names	TGF-beta-2; LAP
UniProt Entry Name	TGFB2_MOUSE
NCBI Protein Information	transforming growth factor beta-2; TGF-beta-2
UniProt Comments for TGF-beta2	TGFB2: TGF-beta 2 has suppressive effects on interleukin-2 dependent T-cell growth. Homodimer; disulfide-linked. Heterodimers with TGFB1 and with TGFB3 have been found in bone. Interacts with the serine proteases, HTRA1 and HTRA3. Interacts with ASPN. Belongs to the TGF-beta family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Cell development/differentiation; Secreted; Motility/polarity/chemotaxis; Secreted, signal peptide Cellular Component: extracellular matrix; extracellular space; cell surface; cell soma; axon; cytoplasm; extracellular region; basement membrane; trans-Golgi network; endosome; secretory granule Molecular Function: protein binding; protein homodimerization activity; growth factor activity; protein heterodimerization activity; beta-amyloid binding; punt binding; cytokine activity; protein N-terminus binding; transforming growth factor beta receptor binding; receptor binding; receptor signaling protein serine/threonine kinase activity Biological Process: heart morphogenesis; extracellular matrix organization and biogenesis; collagen fibril organization; catagen; positive regulation of apoptosis; heart development; SMAD protein nuclear translocation; dopamine biosynthetic process; protein amino acid phosphorylation; regulation of apoptosis; hair follicle development; transforming growth factor beta receptor signaling pathway; somatic stem cell division; cell cycle arrest; cell growth; cartilage condensation; response to drug; negative regulation of keratinocyte differentiation; negative regulation of immune response; neuron fate commitment; positive regulation of cell cycle; positive regulation of catagen; positive regulation of cell growth; positive regulation of phosphoinositide 3-kinase cascade; cardioblast differentiation; positive regulation of protein secretion; response to estrogen stimulus; positive regulation of cell division; regulation of MAPKKK cascade; activation of protein kinase activity; neuron development; response to progesterone stimulus; positive regulation of heart contraction; negative regulation of apoptosis; cell death; axon guidance; wound healing; cell morphogenesis; cardiac muscle cell proliferation; positive regulation of stress-activated MAPK cascade; negative regulation of cell proliferation; positive regulation of neuron apoptosis; negative regulation of release of sequestered calcium ion into cytosol; positive regulation of cell proliferation; embryonic neurocranium morphogenesis; hemopoiesis; positive regulation of integrin biosynthetic process; skeletal development; negative regulation of epithelial cell proliferation; intercellular junction assembly and maintenance; blood vessel development; cell migration; regulation of transforming growth factor-beta2 production; hair follicle morphogenesis; positive regulation of cell adhesion mediated by integrin; glial cell migration; regulation of cell proliferation; eye development; positive regulation of cardioblast differentiation; response to hypoxia; epithelial to mesenchymal transition; blood vessel remodeling; negative regulation of cell growth; positive regulation of cell migration; growth
Research Articles on TGF-beta2	**1.** Endothelial lineage differentiation from induced pluripotent stem cells is regulated by microRNA-21 and transforming growth factor beta2 (TGF-beta2) pathways

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