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Product datasheet for TP723805

TGF beta 2 (TGFB2) (NM_001135599) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human transforming growth factor, beta 2 (TGFB2), transcript variant 1
Species:	Human
Expression Host:	CHO
Expression cDNA Clone or AA Sequence:	Human TGF-beta;2, the region of Ala303-Ser414, from gene Accession# NM_001135599.2
Tag:	Tag Free
Predicted MW:	12.7 kDa
Concentration:	lot specific
Purity:	>98%, as determined by Coomassie stained SDS-PAGE.
Buffer:	20% Acetonitrile, 0.1% TFA (Trifluoroacetic acid)
Bioactivity:	The ED50 is 1 - 4 ng/ml, corresponding to a specific activity of 0.25 - 1.0 x 10^6 units/mg.
Endotoxin:	Less than 0.01 ng per µg protein as determined by the LAL method
Storage:	Store at -80°C.
Stability:	Unopened vial can be stored between 2°C and 8°C for up to 2 weeks, at -20°C for up to 6 months, or at -70°C or below until the expiration date. Aliquots can be stored between 2°C and 8°C for up to one week and stored at -20°C or colder for up to 3 months. Avoid repeated freeze/thaw cycles.
RefSeq:	NP_001129071
Locus ID:	7042
UniProt ID:	P61812
Cytogenetics:	1q41
RefSeq ORF:	1326
Synonyms:	G-TSF; LDS4; TGF-beta2

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Summary: This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate a latency-associated peptide (LAP) and a mature peptide, and is found in either a latent form composed of a mature peptide homodimer, a LAP homodimer, and a latent TGF-beta binding protein, or in an active form consisting solely of the mature peptide homodimer. The mature peptide may also form heterodimers with other TGF-beta family members. Disruption of the TGF-beta/SMAD pathway has been implicated in a variety of human cancers. A chromosomal translocation that includes this gene is associated with Peters' anomaly, a congenital defect of the anterior chamber of the eye. Mutations in this gene may be associated with Loeys-Dietz syndrome. This gene encodes multiple isoforms that may undergo similar proteolytic processing. [provided by RefSeq, Aug 2016]

Protein Families: Druggable Genome, Secreted Protein, Transmembrane

Protein Pathways: Cell cycle, Chronic myeloid leukemia, Colorectal cancer, Cytokine-cytokine receptor interaction, Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM), MAPK signaling pathway, Pancreatic cancer, Pathways in cancer, Renal cell carcinoma, TGF-beta signaling pathway