

Product datasheet for **TP723824**

TGF beta 3 (TGFB3) (NM_003239) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human transforming growth factor, beta 3 (TGFB3)
Species:	Human
Expression Host:	CHO
Expression cDNA Clone or AA Sequence:	Human TGF-beta;3, the region of Ala301-Ser412, from gene Accession# NM_003239.2
Tag:	Tag Free
Predicted MW:	12.7 kDa
Concentration:	lot specific
Purity:	>98%, as determined by Coomassie stained SDS-PAGE.
Buffer:	25% Acetonitrile, 0.1% TFA (trifluoroacetic acid)
Bioactivity:	The ED50 is from 0.10 to 0.4 ng/ml, corresponding to a specific activity of 2.5-10 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_003230
Locus ID:	7043
UniProt ID:	P10600
RefSeq Size:	2574
Cytogenetics:	14q24.3
RefSeq ORF:	1236
Synonyms:	ARVD; ARVD1; LDS5; RNHF; TGF-beta3



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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. This protein is involved in embryogenesis and cell differentiation, and may play a role in wound healing. Mutations in this gene are a cause of aortic aneurysms and dissections, as well as familial arrhythmogenic right ventricular dysplasia 1. [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