

## Product datasheet for **TP723442**

### 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:	E. coli
Expression cDNA Clone or AA Sequence:	ALDTNYCFRN LEENCCVRPL YIDFRQDLGW KWWHEPKGYY ANFCSGPCPY LRSADTTTST VLGLYNTLNP EASASPCCVP QDLEPLTILY YVGRTPKVEQ LSNMVKSCCK CS
Tag:	Tag Free
Predicted MW:	25 kDa
Concentration:	lot specific
Purity:	>95% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	Lyophilized from a 0.2 µM filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2
Bioactivity:	ED50 was determined by TGF-beta3's ability to inhibit the mouse IL-4-dependent proliferation of mouse HT-2 cells is less than or equal to 0.05 ng/ml, corresponding to a specific activity of >2 x 10 <sup>7</sup> units/mg.
Endotoxin:	Endotoxin level is < 0.1 ng/µg of protein (< 1 EU/µg)
Storage:	Store at -80°C.
Stability:	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
RefSeq:	<a href="#">NP_003230</a>
Locus ID:	7043
UniProt ID:	<a href="#">P10600</a>
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

**Product images:**
