

Product datasheet for TP723439

OriGene Technologies, Inc.

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TGF beta 1 (TGFB1) (NM_000660) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Purified recombinant protein of Human transforming growth factor, beta 1 (TGFB1).

Species: Human Expression Host: CHO

Expression cDNA Clone ALDTNYCFSS TEKNCCVRQL YIDFRKDLGW KWIHEPKGYH ANFCLGPCPY IWSLDTQYSK

or AA Sequence: VLALYNQHNP GASAAPCCVP QALEPLPIVY YVGRKPKVEQ LSNMIVRSCK 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-beta1'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 10^7 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: NP 000651

 Locus ID:
 7040

 UniProt ID:
 P01137

 RefSeq Size:
 2583

 Cytogenetics:
 19q13.2

 RefSeq ORF:
 1170

Synonyms: CED; DPD1; IBDIMDE; LAP; TGF-beta1; TGFB; TGFbeta





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 TGFB family members. This encoded protein regulates cell proliferation, differentiation and growth, and can modulate expression and activation of other growth factors including interferon gamma and tumor necrosis factor alpha. This gene is frequently upregulated in tumor cells, and mutations in this gene result in Camurati-Engelmann disease. [provided by RefSeq, Aug 2016]

Protein Families: Protein Pathways: Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein, Transcription Factors 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:

