

Product datasheet for TP720760L

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 CHO **Expression Host:**

Expression cDNA Clone

Ala279-Ser390

or AA Sequence:

Tag: Tag Free **Predicted MW:** 12.5 kDa **Concentration:** lot specific

Purity: >95% as determined by SDS-PAGE and Coomassie blue staining

Buffer: Provided lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl

Endotoxin: Endotoxin level is < 0.1 ng/µg of protein (< 1 EU/µg)

Reconstitution Method: Always centrifuge tubes before opening. Do not mix by vortex or pipetting. Dissolve the

> lyophilized protein in ddH2O. It is not recommended to reconstitute a concentration less than 100 µg/ml. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Store at -80°C. Storage:

Stability: Stable for at least 6 months from date of receipt under proper storage and handling

conditions.

NP 000651 RefSeq:

Locus ID: 7040

UniProt ID: P01137, A0A499FJK2

RefSeg Size: 2583 Cytogenetics: 19q13.2

RefSeq ORF: 1170

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



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