

Active Recombinant Human TGFB1

Cat. No. TGFB1-539H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human TGFB1 (P01137) full-length recombinant protein expressed in CHO cells.
Species	Human
Source	Human
Description	Transforming growth factor beta 1 or TGF- μ 1 is a polypeptide member of the transforming growth factor beta superfamily of cytokines. It is a secreted protein that performs many cellular functions, including the control of cell growth, cell proliferation, cell differentiation and apoptosis. In humans, TGF- μ 1 is encoded by the TGFB1 gene.
Theoretical MW (kDa)	25
Form	Lyophilized
Preparation Method	Mammalian cell (CHO) expression system
Purity	μ 98% by SDS-PAGE, μ 98% by HPLC
Endotoxin Level	< 0.1 ng/ug
Activity	The ED50 as determined by the ability of TGF-beta1 to inhibit the mouse IL-4-dependent proliferation of mouse HT-2 cells is < 0.05 ng/mL, corresponding to a specific activity of > 2 x 10 ⁷ units/mg.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Application	SDS-PAGE
Storage Buffer	Lyophilized from sodium citrate, pH 3.5
Storage	Store at -20°C on dry atmosphere.
Unitprot ID	P01137

GENE INFORMATION

Gene Name	TGFB1 transforming growth factor, beta 1 [Homo sapiens]
Official Symbol	TGFB1
Synonyms	TGFB1; transforming growth factor, beta 1; CED; LAP; DPD1; TGFB; TGFbeta; TGF-beta 1 protein; latency-associated peptide; Camurati-Engelmann disease; Transforming growth factor beta-1; TGF-beta-1; Latency-associated peptide; LAP
Gene ID	7040
mRNA Refseq	NM_000660
Protein Refseq	NP_000651
MIM	190180
Chromosome Location	19q13.1
Pathway	Cell cycle; Chronic myeloid leukemia; Colorectal cancer; Cytokine-cytokine receptor interaction; Hypertrophic cardiomyopathy (HCM); MAPK signaling pathway; Pancreatic cancer; Pathways in cancer; Renal cell carcinoma; TGF-beta signaling

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

pathway; Hemostasis; Influenza Infection; Signaling by TGF beta

Function

growth factor activity; protein N-terminus binding; protein heterodimerization activity; protein homodimerization activity; transcription activator activity; type II transforming growth factor beta receptor binding; type II transforming growth factor beta receptor binding

**PDB rendering
based on 1kla.**

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA