

**TGF-beta 1, Human CellExp™, human recombinant**

<b>CATALOG #:</b>	6479-10	10 µg
	6479-50	50 µg
<b>ALTERNATE NAMES:</b>	Transforming growth factor beta-1, TGF-beta-1, CED, DPD1, TGFB, TGF-b 1, LAP, TGFB1.	
<b>SOURCE:</b>	Human 293 Cell Expressed	
<b>PURITY:</b>	> 95% by SDS - PAGE	
<b>MOL. WEIGHT:</b>	25 kDa, homodimer, nonglycosylated	
<b>ENDOTOXIN LEVEL:</b>	< 1.0 EU per 1 µg of protein	
<b>FORMULATION:</b>	Lyophilized from 50 mM sodium acetate, pH 4.5 and 350 mM NaCl. .	
<b>RECONSTITUTION:</b>	Reconstitute in sterile 4 mM HCl containing 0.1% endotoxin-free recombinant human serum albumin.	
<b>STORAGE CONDITIONS:</b>	Aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.	

**ADVANTAGES:**

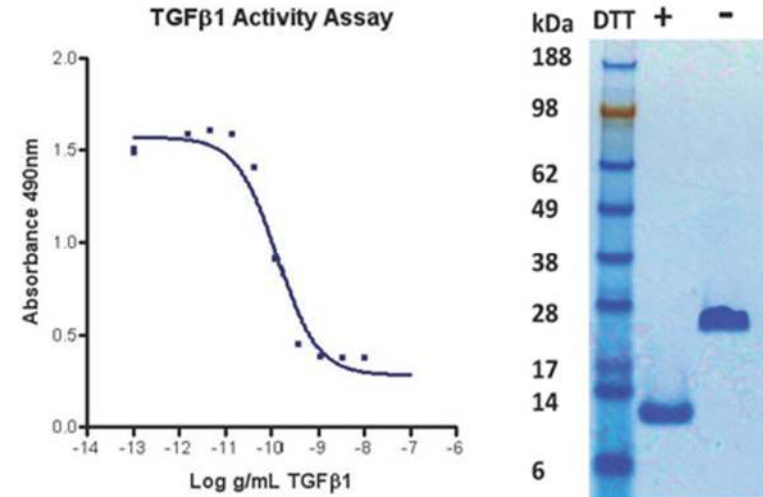
- Animal-derived product free
- High Activity
- Authentic Glycosylation

**DESCRIPTION:**

Transforming growth factor betas (TGFβ) mediate many cell-cell interactions that occur during embryonic development. Three TGFβs have been identified in mammals. TGF Beta 1, TGF Beta 2 and TGF Beta 3 are each synthesized as precursor proteins that are very similar in that each is cleaved to yield a 112 amino acid polypeptide that remains associated with the latent portion of the molecule. TGF-beta 1 is involved in hematopoiesis and endothelial differentiation.

**BIOLOGICAL ACTIVITY:**

ED<sub>50</sub> is typically 0.1 to 0.5 ng/mL. The specific activity was determined by the dose-dependent inhibition of IL-4 induced proliferation of mouse HT-2 cells (BALB/c spleen activated by sheep erythrocytes in the presence of IL-2).

Human Cell<sup>exp</sup> Human Recombinant TGF-β1**RELATED PRODUCTS:**

- Human Cell<sup>exp</sup> Human Recombinant TGF-beta 2 (Cat # 6480-10, -50)
- Human Cell<sup>exp</sup> Human Recombinant TGF-beta 3 (Cat # 6481-10, -50)
- TGF-beta1, human recombinant (Cat. No. 4342-5, -50, -500)
- TGF-beta2, human recombinant (Cat. No. 4340-5, -50, -500)
- TGF-beta3, human recombinant (Cat. No. 4344-5, -50, -500)
- TGF-beta1 Antibody (Cat. No. 5559-100)
- TGF-beta2 Antibody (Cat. No. 5340-100)
- TGF-beta2 Antibody (Cat. No. 5343R-100)
- TGF-beta3 Antibody (Cat. No. 5344R-100)

**FOR RESEARCH USE ONLY! Not to be used in humans.**