# BioVision

### rev. 09/08

## **Recombinant Human TGF-β1**

CATALOG #:	4342-5 4342-50 4342-500	5 µg 50 µg 500 µg
LOT #:	-	
SOURCE:	(	CHO cells
PURITY:		>98% by SDS-PAGE and HPLC analyses Endotoxin level is <0.1 ng per μg (1EU/μg).
MOL. WEIGHT:	2	25.0 kDa
FORM:	L	_yophilized from Sodium Citrate buffer, pH 3.5

#### **RECONSTITUTION:**

Centrifuge the vial prior to opening. Reconstitution in water to a concentration of 50  $\mu$ g/ml (e.g., 5  $\mu$ g/100  $\mu$ l) will yield a solution of 1 mM citrate buffer (pH 3.5). The solution can then be stored at 4°C for 1 month. It is recommended that further dilutions be made in PBS containing 2 mg/ml albumin and stored at –20°C.

#### STORAGE CONDITIONS:

The lyophilized TGF- $\beta$ 1 is best-stored at -20°C. Reconstituted TGF- $\beta$ 1 should be stored in working aliquots at -20°C.

#### DESCRIPTION:

TGF- $\beta_1$  (Transforming Growth Factor-beta 1) is a member of the superfamily of homologous, disulfide-linked, homodimeric proteins that regulate the proliferation and differentiation of normal and transformed cells. Human TGF- $\beta_1$  is a 25.0 kDa protein containing two identical 112 amino acid polypeptide chains linked by a single disulfide bond.

#### **BIOLOGICAL ACTIVITY:**

The ED<sub>50</sub> as determined by the ability of TGF- $\beta$ 1 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<sup>7</sup> units/mg.

**USAGE:** For Research Use Only! Not to be used in humans.

#### **RELATED PRODUCTS:**

Apoptosis Detection Kits & Reagents

- Annexin V Kits & Bulk Reagents
- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

Cell Proliferation & Senescence

- Quick Cell Proliferation Assay Kit
- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

Cell Damage & Repair

- HDAC Fluorometric & Colorimetric Assays & Drug Discovery Kits
- HAT Colorimetric Assay Kit & Reagents
- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits
  Signal Transduction
  - cAMP & cGMP Assay Kits
  - Akt & JNK Activity Assay Kits
  - Beta-Secretase Activity Assay Kit

Adipocyte & Lipid Transfer

- Recombinant Adiponectin, Survivin, & Leptin
- CETP Activity Assay & Drug Discovery Kits
- PLTP Activity Assay & Drug Discovery Kits
- Total Cholesterol Quantification Kit

Molecular Biology & Reporter Assays

- siRNA Vectors
- Cloning Insert Quick Screening Kit
- Mitochondrial & Genomic DNA Isolation Kits
- 5 Minutes DNA Ligation Kit
- 20 Minutes Gel Staining/Destaining Kit
- β-Galactosidase Staining Kit & Luciferase Reporter Assay Kit

Growth Factors and Cytokines

Monoclonal and Polyclonal Antibodies

