Human Transforming Growth Factor- β1 (TGF-β1)

CATALOG NUMBER: TGF-B1-010P, 10 µg

Introduction	The TGF-β1 protein is a member of TGF-β family. TGF-βs are a multifunctional set peptides that controls proliferation, differentiation, and other functions in many cell types. TGF-βs act synergistically with TGFA in inducing transformation. It also acts as a negative autocrine growth factor. TGF-β1 plays an important role in controlling the immune system, and shows different activities on different types of cell, or cells at different developmental stages. Most immune cells (or leukocytes) secrete TGF-β1.
Description	Recombinant human TGF-β1 produced in is a disulfide-linked homodimer, polypeptide chain containing 224 amino acids and having a molecular weight of 25 kDa.
Source	*CHO/dhfr-*
Applications	Cell culture (produced in GMP facility)
Purity	≥ 97% purity (by SDS PAGE and HPLC)
Endotoxin Level	≤1 EU/mg, determined by the LAL method
Biological Activity	Measured by MV-1-Lu (NBL-7) cell growth inhibition assay. The specific activity shall be not less than 3.2 $x10^7$ IU/mg
Formulation	Sterile lyophilized powder, in 100 mM Glycine, 150 mM NaCl, pH4.0. Reconstitute with double distilled water at a concentration of no less than 100 µg/ml.
Storage	Stable for 6-months from the date of shipment when kept at -20 °C or -70 °C. Upon reconstitution, it can be stored at 4 °C for at least one month or -20 °C for at least three months. Avoid repeated freeze-thaw cycles.
Usage	This product is produced for LABORATORY RESEARCH USE ONLY.

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