

Product Sheet

TGF- β 1, human recombinant

Catalog # TGFB1-005; TGFB1-025; TGFB1-100

Description Members of TGF- β family are multifunctional cytokines that regulate cell proliferation, growth, differentiation and migration as well as synthesis of the extracellular matrix. The three human isoforms, TGF- β 1, β 2, β 3, signal through the same receptor and elicit similar biological responses. The release of biologically active TGF- β isoform from a latent complex involves proteolytic processing of the complex. TGF- β 1 is the most abundant isoform secreted by almost all cell types. Human TGF- β 1 is a 25.0kDa protein with each subunit containing 112 amino acid residues, linked by a disulfide bond.

Formulation Lyophilized in sterile filtered solution of acetonitrile/TFA and PBS

Reconstitution Before reconstitution, we recommend a brief spin to drive down any material dislodged from the bottom of the tube. The lyophilized protein should be reconstituted in 5 mM HCl. Further dilutions should be made in buffer or medium containing carrier proteins, such as albumin or serum.

Stability The lyophilized protein is stable for at least 1 year if stored at -80 degree C. Reconstituted protein is stable for at least 1 month at 4 degree C, but should be stored in aliquots at -80 degree C for longer term. Avoid repeated freeze and thaw.

Purity Greater than 95% as determined by SDS-PAGE and HPLC analyses

Biological Activity The activity was determined by using a SMAD reporter gene assay in human 293 cells. The EC50 ranges from 0.1 – 1.0 ng/ml.

Country of Origin USA

For Research Use Only. Not for Use in Humans.