

## Recombinant human TGFβ-1 (Active, Tag free)

- Cat. Number:** bs-48018P
- Quantity size:** 10μg / 50ug / 500μg
- Protein Sequence:** 279-390aa, Tag free, full length mature protein
- Swiss-Prot:** P01137
- Gene ID:** 70405
- Source:** Human cells derived
- Structure:** Non-glycosylated homodimer
- Purity:** >95% by SDS-PAGE
- MW:** 25kDa
- Endotoxin Level:** <0.5EU/ug
- Formulation:** Lyophilized from a 0.2μm filtered solution in PBS without carrier protein  
Animal and Xeno free
- Activity Assay:** The activity was measured by its ability to inhibit the IL-4 induced proliferation in mouse HT-2 cells (BALB/c spleen activated by sheep erythrocytes in the presence of IL-2).
- Reconstitution:** Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile PBS containing 0.1% endotoxin-free recombinant human serum albumin.
- Stability & Storage:** Use a manual defrost freezer and avoid repeated freeze-thaw cycles. In general: 12 months from date of receipt, -20 to -80°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -80 °C under sterile conditions after reconstitution.
- Description:** Transforming growth factor beta 1 (TGF-β1) is one of three closely related mammalian members of the large TGF-β superfamily, TGF-β1, β2, and β3, signal through the same receptor and elicit similar biological responses. TGF-β1 is the most abundant isoform secreted by almost every cell type. TGF-β1 is a multifunctional cytokine that controls proliferation, differentiation and other functions in many cell types. Many cells synthesize TGF-β1 and have specific receptors for it. TGF-β1 positively and negatively regulates many other growth factors. TGF-β1 plays an important role in bone remodeling as it is a potent stimulator of osteoblastic bone formation, causing chemotaxis, proliferation and differentiation in committed osteoblasts.

**Important Note:** *This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.*