



A specialized producer of
Wnt signaling products

Recombinant Human TGF- β 1

Catalog Number:	rhTGF β 1
Source:	Human cells-derived
Purity:	95% evaluated by SDS-PAGE under reducing conditions
Predicted M.W.:	25 kDa (homodimer)
Description	<p>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. These members 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. TGF-β1 positively and negatively regulates many other growth factors and plays an important role in hematopoiesis and endothelial differentiation.</p>
Reconstitution	<p>Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile 4 mM HCl containing at least 0.1% human or bovine serum albumin. This solution could enhance protein stability, increase shelf-life, and allow the recombinant protein to be stored at a more dilute concentration.</p>
Activity:	<p>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).</p>
Handling and Storage	<p>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.</p>
Reference	<p>Derynck R, et al. (1985) Nature 316,701-705.</p> <p>Wah SM , (2006) Immunol. Rev. 213, 213.</p> <p>Tsang M, et al. (1995) Cytokine 7,389.</p>