



## RECOMBINANT HUMAN TRANSFORMING GROWTH FACTOR- $\beta_1$

<b>CATALOG NUMBER:</b>	GF111
<b>LOT NUMBER:</b>	
<b>QUANTITY:</b>	5 $\mu$ g
<b>DESCRIPTION:</b>	Human Transforming Growth Factor- $\beta_1$ (TGF- $\beta_1$ ) is a member of a 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 with each subunit containing 112 amino acid residues.
<b>SOURCE:</b>	CHO cells
<b>PURITY:</b>	Greater than 98% by SDS-PAGE and HPLC analyses. Endotoxin level is less than 0.1 ng per $\mu$ g (1EU/ $\mu$ g) of TGF- $\beta_1$ .
<b>BIOLOGICAL ACTIVITY:</b>	Determined by its ability to inhibit the mouse IL-4-dependent proliferation of mouse HT-2 cells. The ED <sub>50</sub> was found to be $\leq$ 0.05 ng/mL, corresponding to a specific activity of $\geq$ 2 x 10 <sup>7</sup> units/mg.
<b>PRESENTATION:</b>	Sterile Filtered through a 0.2 micron filter. Lyophilized with no additives.
<b>RECONSTITUTION:</b>	Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.
<b>STORAGE/HANDLING:</b>	The lyophilized powder, though stable at room temperature, is best stored at -20°C to -80°C until expiration on the vial label. Reconstituted stock solutions of TGF- $\beta_1$ should be stored in undiluted aliquots at -20°C to -80°C for up to 10 months. Avoid repeated freezing and thawing.

**Important Note:** *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200  $\mu$ L or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

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