

## TGFB1

### Recombinant Human Transforming Growth Factor-beta 1

<b>Catalog No.</b>	CRT000RA CRT000RB CRT000RC	<b>Quantity:</b>	5 µg 50 µg 500 µg
<b>Alternate Names:</b>	Human TGF-beta1, TGF-beta1, TGF beta1, TGFbeta1, h-TGF-beta1, rh-TGF-beta1, recombinant human TGF-beta1, recombinant TGF-beta, TGF		
<b>Description:</b>	TGF-β1 (Transforming Growth Factor-beta1) is a member of the superfamily of homologous, disulfide-linked, homodimeric proteins that regulate the proliferation and differentiation of normal and transformed cells. Human TGF-beta1 is a 25.0 kDa protein containing two identical 112 amino acid polypeptide chains linked by a single disulfide bond.		
<b>Gene ID:</b>	7040		
<b>Source:</b>	CHO cells		
<b>Molecular Weight:</b>	25.0 kDa		
<b>Formulation:</b>	Lyophilized from sodium citrate buffer, pH 3.5		
<b>Purity:</b>	> 98% as determined by SDS-PAGE and HPLC analyses		
<b>Endotoxin Level:</b>	< 0.1 ng/µg of TGFB1		
<b>Biological Activity:</b>	The ED <sub>50</sub> as determined by the ability of TGF-beta1 to inhibit the mouse IL-4-dependent proliferation of mouse HT-2 cells is ≤0.05 ng/ml.		
<b>Specific Activity:</b>	≥2 x 10 <sup>7</sup> units/mg		
<b>Reconstitution:</b>	<b>Centrifuge the vial prior to opening.</b> Reconstitution in water to a concentration of 50 µg/ml (e.g., 5 µg/100 µl) will yield a solution of 1 mM citrate buffer (pH 3.5). The solution can then be stored at 2-4°C for 1 month. It is recommended that further dilutions be made in PBS containing 2 mg/ml albumin, aliquoted, and stored at -20°C.		
<b>Storage &amp; Stability:</b>	Store lyophilized protein at -20°C. Reconstituted protein should be stored in working aliquots at -20°C. <b>Avoid repeated freeze-thaw cycles.</b>		

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