

## TGFA

## Recombinant Human Transforming Growth Factor alpha

<b>Catalog No.</b>	CRT003A CRT003B CRT003C	<b>Quantity:</b>	20 µg 100 µg 1.0 mg
<b>Alternate Names:</b>	Human TGF-alpha, TGF-alpha, TGF alpha, TGFalpha, h-TGF-alpha, rh-TGF-alpha, recombinant human TGF-alpha, recombinant TGF-alpha, TGF		
<b>Description:</b>	Transforming Growth Factor-α (TGF-α) stimulates the proliferation of a wide range of epidermal and epithelial cells. TGF-α has been shown to play a role in the autocrine growth of certain transformed cells. Human TGF-α is a 5.5 kDa protein containing 50 amino acid residues.		
<b>Gene ID:</b>	7039		
<b>Source:</b>	<i>E. coli</i>		
<b>Molecular Weight:</b>	5.5 kDa		
<b>Formulation:</b>	Sterile filtered and lyophilized with no additives		
<b>Purity:</b>	> 98% as determined by SDS-PAGE and HPLC analyses		
<b>Endotoxin Level:</b>	<0.1 ng/µg of the protein		
<b>Biological Activity:</b>	Determined by the dose-dependent stimulation of proliferation of BALB-c 3T3 cells. The ED <sub>50</sub> is ≤0.2 ng/ml corresponding to a specific activity of ≥ 5 x 10 <sup>6</sup> units/mg.		
<b>Specific Activity:</b>	≥5.0 x 10 <sup>6</sup> units/mg		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> First add sterile water to the vial to fully solubilize the protein to a concentration of 0.1-1.0 mg/ml. After complete solubilization of the protein, it can be further diluted to other aqueous solutions and stored at 2-4°C for 1 week or -20°C for future use. For most <i>in vitro</i> applications, TGF-alpha exerts its biological activity in the concentration range of 0.5-25 ng/ml.		
<b>Storage &amp; Stability:</b>	The lyophilized protein is best stored desiccated below 0°C. Reconstituted protein should be stored in working aliquots at -20°C. <b>Avoid repeated freeze-thaw cycles.</b>		

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