

Recombinant Human TGF- α

CATALOG #:	4339-20	20 μ g
	4339-100	100 μ g
	4339-1000	1 mg
LOT #:	_____	
SOURCE:	<i>E. coli</i>	
PURITY:	>98% by SDS-PAGE and HPLC analyses Endotoxin level is <0.1 ng/ μ g (1EI/ μ g) of TGF- α .	
FORM:	Sterile filtered and lyophilized with no additives	

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. The solution can then be diluted into other aqueous buffers and store at 4°C for 1 week or – 20°C for future use. For most *in vitro* applications, TGF- α exerts its biological activity in the concentration range of 0.5 to 25 ng/ml.

STORAGE CONDITIONS:

The lyophilized human TGF- α is best-stored desiccated below 0°C. Reconstituted TGF- α should be stored in working aliquots at -20°C.

DESCRIPTION:

Transforming Growth Factor-alpha (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.

BIOLOGICAL ACTIVITY:

The ED₅₀ as determined by the dose-dependent stimulation of proliferation of Balb-c 3T3 cells is ≤ 0.2 ng/ml, corresponding to a specific activity of $\geq 5 \times 10^6$ units/mg.

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