



Human TGF-alpha Human Transforming Growth Factor-alpha recombinant

PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING

Size	Order #	Lot #	Expiry Date*
20µg	W 1930950020	3506020600	September 2011

Description

Recombinant human Transforming Growth Factor-alpha (TGF-α) is a 50 amino acid polypeptide (5.5 kDa) which shares approximately 40% sequence homology with EGF, including 6 conserved cysteine residues, which form 3 intramolecular disulfide bonds. TGF-α is an EGF-related polypeptide growth factor that signals through the EGF receptor, and stimulates the proliferation of wide range of epidermal and epithelial cells. It is produced by monocytes, keratinocytes, and various tumor cells. TGF-α induces transformation anchorage independence in cultured cells. Human, murine and rat TGF-α are cross-species reactive.

- **Biological activity** $\geq 5 \times 10^6$ units/mg
- **Source** *E.coli*
- **Purity** $\geq 98\%$ (SDS-PAGE, HPLC)
- **Endotoxin level** $\leq 0.1\text{ng}/\mu\text{g}$, ($\leq 1\text{EU}/\mu\text{g}$)
- **Stabilizer** None
- **Buffer** None
- **Physical state** Sterile filtered, lyophilized

Biological activity

The ED_{50} of $\leq 0.2\text{ng}/\text{ml}$ was determined by the dose-dependent stimulation of the proliferation of Balb/c 3T3 cells. It corresponds to a specific activity of $\geq 5 \times 10^6$ units/mg.

Reconstitution

We recommend a quick spin followed by reconstitution in water to a concentration of 0.1-1.0 mg/ml. This solution can then be diluted into other aqueous buffers and stored at 4°C for 1 week or -20°C for future use.

Stability

The lyophilized protein is stable for at least 2 years from date of receipt at -20°C. Reconstituted TGF-α is stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C.

Please avoid freeze/thaw cycles.

Usage

FOR RESEARCH USE ONLY

NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES

* For lyophilized product if stored as indicated. Please contact our technical support if the product has expired.

Biochrom AG, Leonorenstr. 2-6, 12247 Berlin

Phone: +49 30 77 99 06-92

Fax: +49 30 771 00 12

Email: info@biochrom.de

<http://www.biochrom.de>