TGF-alpha Human E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Human
Other names: Transforming Growth Factor-?, Sacroma growth factor, TGF-type I, ETGF

Cat. No.:

RBG10309020	(20 µg)
RBG10309100	(100 µg)
RBG10309250	(250 µg)

Description

TGF-alpha is an EGF-related polypeptide growth factor that signals through the EGF receptor, and stimulates the proliferation of a wide range of epidermal and epithelial cells. It is produced by monocytes, keratinocytes, and various tumor cells. TGF-alpha induces transformation anchorage independence in cultured cells. Human, murine and rat TGF-alpha are cross-species reactive. Recombinant human TGF-alpha 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.

Research topic

Cardiovascular disease, Coronary artery disease, Oncology

Amino Acid Sequence

VVSHFNDCPD SHTQFCFHGT CRFLVQEDKP ACVCHSGYVG ARCEHADLLA

Source

E. coli

Purity

98%

Biological Activity

The ED_{50} as determined by the dose-dependent stimulation of thymidine uptake by BALB/c 3T3 cells is ? 0.2 ng/ml, corresponding to a specific activity of ? 5×10^{6} units/mg.

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

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.

Storage, Stability/Shelf Life

-20°C

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