

Product datasheet for TP728283

OriGene Technologies, Inc.

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Recombinant TGF alpha (Transforming growth factor alpha), Human

Product data:

Product Type: Recombinant Proteins

Description: Recombinant TGF alpha (Transforming growth factor alpha), Human

Species: Human
Expression Host: E. coli

Expression cDNA Clone

MVVSHFNDCPDSHTQFCFHGTCRFLVQEDKPACVCHSGYVGARCEHADLLA with polyhistidine tag at the C-terminus.

or AA Sequence: at the

it the C-terminus.

Tag: His Tag (C-term)

Predicted MW: The protein has a calculated MW of 6.49 kDa. The protein migrates as 7 kDa under reducing

condition (SDS-PAGE analysis).

Purity: >98% as determined by SDS-PAGE.

Buffer: The protein was lyophilized from a 0.2 μm filtered solution containing 1X PBS, pH 8.0.

Bioactivity: Measure by its ability to induce 3T3 cells proliferation. The ED₅₀ for this effect is < 0.2 ng/mL.

The specific activity of recombinant human TGF alpha is $> 5 \times 10^6 \text{ IU/mg}$.

Endotoxin: $< 0.1 \text{ EU per 1} \mu \text{g of the protein by the LAL method.}$

Reconstitution Method: Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the

lyophilized protein in sterile H₂O to a concentration not less than 100 µg/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. In some experiments, it recommends to add 10 mM HCl when reconstitute lyophilized protein. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

Applications: Cell culture

Storage: Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to

8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -

20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.

UniProt ID: P01135

Synonyms: Sarcoma growth factor, TGF-type I, ETGF, TGFA

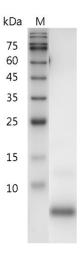




Summary:

Transforming Growth Factors alpha (TGF- α) is a 5.68 kDa member of the epidermal Growth Factors with 51 amino acid residues. TGF- α is mainly expressed from brain, skin, epithelial cell (pancreatic endocrine cells, urothelial cells, oligodendrocyte precursor cells, etc.). TGF- α is a regulator of cell proliferation and differentiation via bind to the EGFR and to act synergistically with TGF β . TGF- α also associates with myriad forms of cancer.

Product images:



SDS- PAGE analysis of recombinant human TGF alpha