Recombinant Mouse TGF-alpha Protein

Catalog No.: RP01846

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Sequence Information

Species
Mouse

Gene ID
21802

Swiss Prot
P48030

Tags
C-hFC-6His

Synonyms
Protransforming growth factor alpha, Cleaved into: Transforming growth factor alpha, TGF-alpha, EGF-like TGF, ETGF, TGF type 1, Tgfa

Product Information

Source
HEK293 cells

Purification
≥ 85% as determined by SDS-PAGE.

Calculated MW
32.08 kDa

Observed MW
35-45 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Transforming growth factor alpha (TGF-α) is a protein that in humans is encoded by the TGFA gene. TGF-alpha is a member of the EGF family of cytokines that are synthesized as transmembrane precursors and are characterized by the presence of one or several EGF structural units in their extracellular domain. Expression of TGF-alpha is widespread in tumors and transformed cells. TGF-alpha is also expressed in normal tissues during embryogenesis and in adult tissues, including pituitary, brain, keratinocytes, and macrophages.TGF alpha is a mitogenic polypeptide that is able to bind to the EGF receptor and to act synergistically with TGF beta to promote anchorage-independent cell proliferation in soft agar.

Basic Information

Description
Recombinant Mouse TGF-alpha Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Ala38-Ala88) fused with hFC-6His tag at the C-terminus.

Activity
Measured in a cell proliferation assay using Balb3T3 mouse fibroblast cells. The ED_{50} for this effect is 0.43-1.72 ng/mL, corresponding to a specific activity of 15.81×10^5~2.33×10^6 units/mg.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

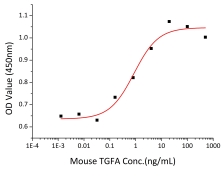
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

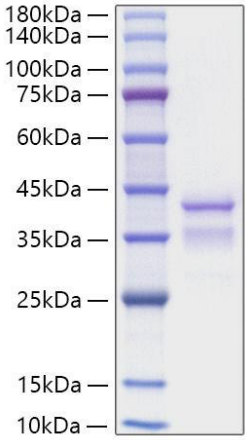
400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

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Validation Data



Recombinant Mouse TGF-alpha/TGFA stimulates cell proliferation assay using Balb3T3 mouse fibroblast cells. The ED_{50} for this effect is 0.43-1.72 ng/mL, corresponding to a specific activity of 15.81×10^5~2.33×10^6 units/mg.



Recombinant Mouse TGF-alpha Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.