

Catalog No.: RP01846 **Recombinant**

Species	Gene ID	Swiss Prot
Mouse	21802	P48030

C-hFc

Protransforming growth factor alpha;
Cleaved into: Transforming growth factor
alpha; TGF-alpha; EGF-like TGF; ETGF;
TGF type 1

Source	Purification
HEK293 cells	≥ 85% as determined by SDS-PAGE.

Calculated MW	Observed MW
32.08 kDa	35-45 kDa

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

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

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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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Transforming growth factor alpha (TGF- α) is a protein that in humans is encoded by the TGFA gene. TGF- α 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- α is widespread in tumors and transformed cells. TGF- α is also expressed in normal tissues during embryogenesis and in adult tissues, including pituitary, brain, keratinocytes, and macrophages. TGF- α is a mitogenic polypeptide that is able to bind to the EGF receptor and to act synergistically with TGF- β to promote anchorage-independent cell proliferation in soft agar.

Recombinant Mouse TGF- α Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ala38-Ala88) of Mouse TGF- α /TGFA (Accession #NP_112476.1) fused with a hFc tag at the C-terminus.

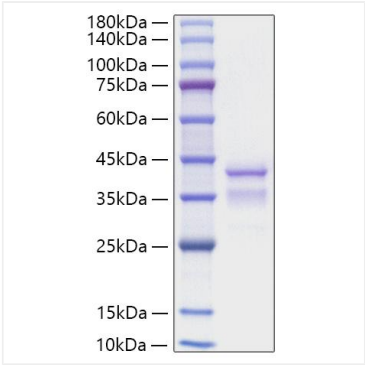
Measured in a cell proliferation assay using Balb3T3 mouse fibroblast cells. The ED₅₀ for this effect is 0.43-1.72 ng/mL, corresponding to a specific activity of 15.81×10⁵~2.33×10⁶ units/mg.

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.

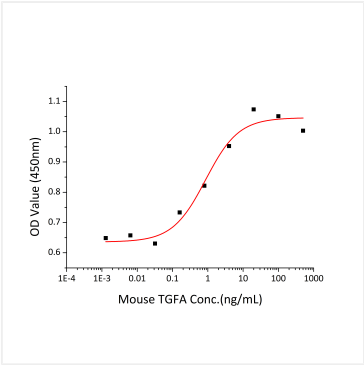
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.
Avoid repeated freeze/thaw cycles.

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

Validation Data



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



Recombinant Mouse TGF-alpha/TGFA stimulates cell proliferation assay using Balb3T3 mouse fibroblast cells. The ED₅₀ for this effect is 0.43-1.72 ng/mL, corresponding to a specific activity of 15.81×10⁵~2.33×10⁶ units/mg.