

Recombinant Mouse FGF-10 Protein

Catalog No.: RP01848 **Recombinant**

Sequence Information

Species Mouse **Gene ID** 14165 **Swiss Prot** O35565

Tags
NO-Tag

Synonyms

Fibroblast growth factor 10; FGF-10;
Keratinocyte growth factor 2; Fgf10

Background

Fibroblast Growth Factor 10 (FGF 10) is an evolutionary conserved secreted growth factor mediating mostly mesenchymal to epithelial signaling. FGF 10 belongs to the FGF 7 subfamily and shares similar biochemical and amino acid sequences with its constituent members (FGF3, FGF 7 and FGF 22). As a paracrine FGF, FGF 10 elicits its biological responses by activating the fibroblast growth factor receptor 2b (FGF R 2b), is crucial for governing proximal distal outgrowth as well as patterning and acts upstream of the known apical ectodermal ridge (AER) marker FGF 8. FGF10 is also implicated in pancreatic cancer, and that overexpression of FGFR2b is associated with metastatic invasion.

Basic Information

Description

Recombinant Mouse FGF-10 Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Gln37-Thr209) of Mouse FGF-10 (Accession #NP_032028.1) fused with no tag.

Bio-Activity

Measured in a cell proliferation assay using 4MBr-5 rhesus monkey epithelial cells. The ED₅₀ for this effect is 3.66-14.64 ng/mL, corresponding to a specific activity of 56.83×10⁴~2.73×10⁵ units/mg.

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

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.

Operational Notes

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

Product Information

Source

E. coli **Purification**
≥ 95 % as determined by SDS-PAGE.

Calculated MW

19.54 kDa

Observed MW

20-25 kDa

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of 20mMPB,800mMNaCl□pH7.4

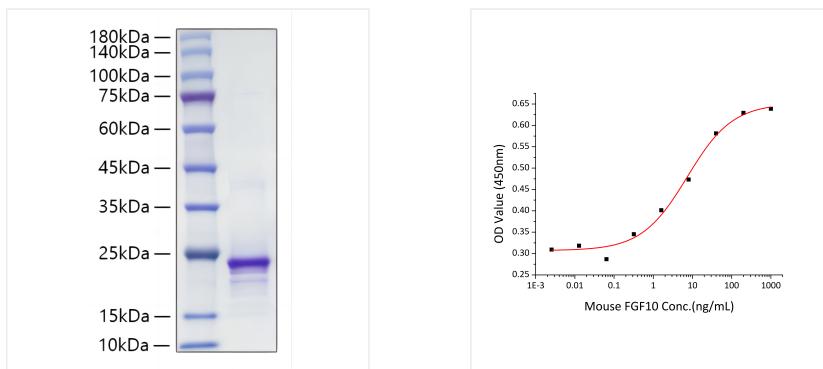
Reconstitution

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

Contact

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Validation Data



Recombinant Mouse FGF-10 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.

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