

Recombinant Mouse FGF-10 Protein

Catalog No.: RP01848

Sequence Information

Species **Gene ID**
Mouse 14165

Swiss Prot **Tags**
O35565 NO-Tag

Synonyms

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

Product Information

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

Calculated MW **Observed MW**
19.54 kDa 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.

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.

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

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°C

Operational Notes

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

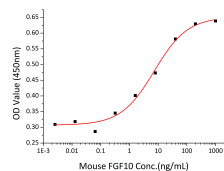
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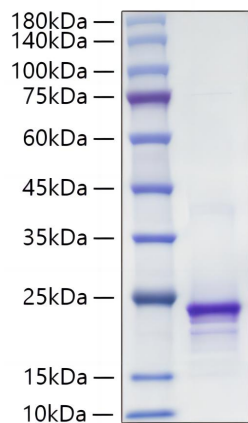
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Validation Data



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 $56.83 \times 10^4 \sim 2.73 \times 10^5$ units/mg.



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