Recombinant Mouse FGF-1/aFGF Protein

Catalog No.: RP00487

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Sequence Information

Species
Mouse

Gene ID
14164

Swiss Prot
P61148

Tags
No tag

Synonyms
Fibroblast Growth Factor 1, FGF-1, Acidic Fibroblast Growth Factor, aFGF, Heparin-BindingGrowth Factor 1, HBGF-1, Fgf1, Fgf-1, Fgfa

Product Information

Source
E. coli

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
15.79 kDa

Observed MW
15-25 kDa

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

Formulation
Lyophilized from a 0.2 μm filtered solution of 20 mM Tris-HCl, pH7.5, 50 mM Na_2SO_4, 0.5 mM DTT, 1 mM EDTA. Contact us for customized product form or formulation.

Reconstitution
Centrifuge the tube 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

FGF acidic is a 17 kDa nonglycosylated member of the FGF family of mitogenic peptides. FGF acidic, which isproduced by multiple cell types, stimulates the proliferation of all cells of mesodermal origin and many cells ofneuroectodermal, ectodermal, and endodermal origin. It plays a number of roles in development,regeneration, and angiogenesis. FGF-acidic is a non-glycosylated heparin binding growth factor that isexpressed in the brain, kidney, retina, smooth muscle cells, bone matrix, osteoblasts, astrocytes andendothelial cells. FGF-acidic has the ability to signal through all the FGF receptors.

Basic Information

Description
Recombinant Mouse FGF-1/aFGF Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Phe16-Asp155) of mouse FGF1/FGFa/FGF acidic (Accession #P61148).

Activity
Measured in a cell proliferation assay using Balb3T3 mouse fibroblast cells. The ED50 for this effect is 0.528-2.11 ng/mL in the presence of 10 μg/mL of heparin, corresponding to a specific activity of 4.74×105~1.90×106 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℃

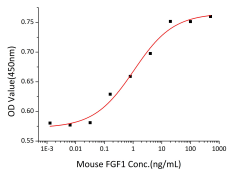
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

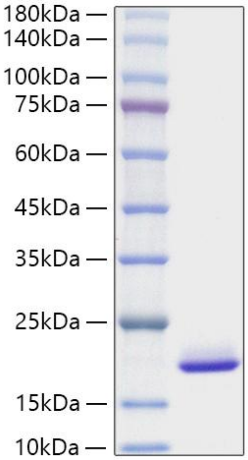
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Validation Data



Measured in a cell proliferation assay using Balb3T3 mouse fibroblast cells. The ED_{50} for this effect is 0.528-2.11 ng/mL in the presence of 10 μg/mL of heparin, corresponding to a specific activity of 4.74×10^5~1.90×10^6 units/mg.



Recombinant Mouse FGF-1/aFGF Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.