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Recombinant Mouse FGF-9 Protein

Catalog No.: RP01840LQ Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	14180	P54130

Tags
No-tag

Synonyms
Fibroblast growth factor 9; FGF-9; Glia-activating factor; GAF; HBGF-9；Fgf9; Fgf-9

Product Information

Source	Purification
E. coli	≥ 90 % as determined by SDS-PAGE.

Calculated MW	Observed MW
23.41 kDa	25-30 kDa

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

Formulation
Supplied as a 0.22 μm filtered solution of solution of 20mM Tris-HCl, 250mM NaCl, 1mM EDTA, 20% Glycerol, 1mM DTT, pH 8.5

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.

Contact

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Background

Fibroblast growth factor 9 is also known as FGF9, GAF, HBFG-9, SYNS3, and is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, morphogenesis, tissue repair, tumor growth and invasion. FGF9 is also a mitogen for oligodendrocyte type 2 astrocyte progenitor cells, smooth muscle cells, pheochromocytoma PC12 cells, and BALB/3T3 fibroblasts. However, unlike FGF acidic and basic, FGF9 has no effect on human umbilical vein endothelial cells, and it has been demonstrated that FGF9 binds preferentially to the IIIc form of FGFR3. Although no typical signal sequence was found in FGF9, it is secreted efficiently after synthesis not in a conventional manner. In nervous system, FGF9 is produced mainly by neurons and may plays an important role in CNS development. FGF9 has been shown to interact with Fibroblast growth factor receptor 3.

Basic Information

Description
Recombinant Mouse FGF-9 Protein is produced by E. coli expression system. The target protein is expressed with sequence (Met1-Ser208) of Mouse FGF-9 (Accession #NP_038546.2) fused with NO-tag.

Bio-Activity
Measured in a cell proliferation assay using BALB/3T3 mouse fibroblasts. The ED_{50} for this effect is 2.52-10.06 ng/mL, corresponding to a specific activity of 9.94×10^{4}~3.97×10^{5} units/mg.

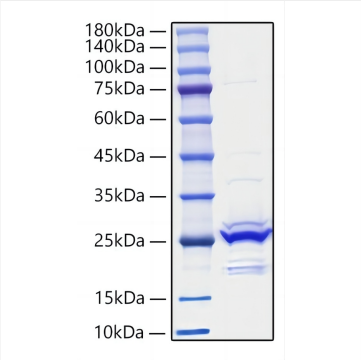
Shipping
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -70℃. This product is stable at ≤ -70℃ for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated freeze-thaw cycles.
Avoid repeated freeze/thaw cycles.

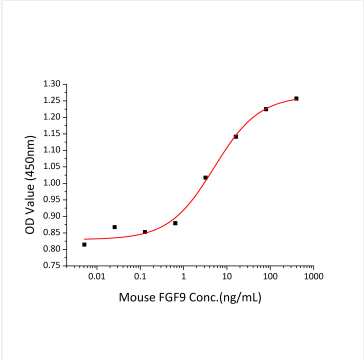
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

* 为了您的安全和健康，请穿实验服并戴一次性手套操作。

Validation Data



Recombinant Mouse FGF-9 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Recombinant Mouse FGF-9 Protein promotes proliferation of BALB/3T3 mouse fibroblasts cells. The ED_{50} for this effect is 2.52-10.06 ng/mL, corresponding to a specific activity of 9.94×10^{4}~3.97×10^{5} units/mg.