

Recombinant Mouse FGF-9 Protein

Catalog No.: RP01840LQ

Sequence Information

Species **Gene ID**
Mouse 14180

Swiss Prot **Tags**
P54130 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 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 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 play 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.

Activity

Measured in a cell proliferation assay using BALB/3T3 mouse fibroblasts. The ED₅₀ for this effect is 2.52-10.06 ng/mL, corresponding to a specific activity of 9.94×10⁴~3.97×10⁵ 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 -70°C

Operational Notes

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

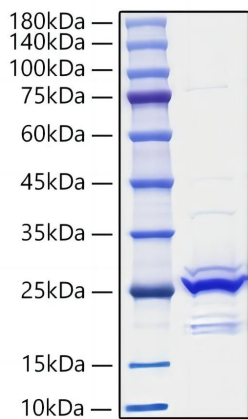
Contact

☎ | 400-999-6126

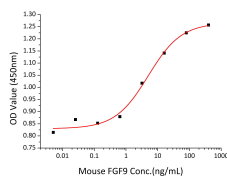
✉ | cn.market@abclonal.com.cn

🌐 | www.abclonal.com.cn

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 $9.94 \times 10^4 \sim 3.97 \times 10^5$ units/mg.