

## Recombinant Mouse FGF-9 Protein

RPCB1222

### Protein Information

---

<b>Size:</b>	10 µg , 20 µg , 50 µg , 100 µg	<b>Tag:</b>	No-tag
<b>Reactivity:</b>	Mouse	<b>Expressed Host:</b>	-
<b>Calculated MW:</b>	23.41 kDa	<b>Observed MW:</b>	25-30 kDa

### Background

---

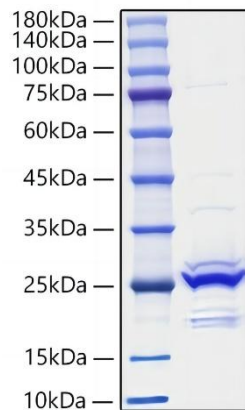
Fibroblast growth factor 9 is also known as FGF9, GAF, HBFG-9, SYNS3, and is a member of the fibroblast growth factor (FGF) family. FGF family members possess broad mitogenic and cell survival activities, and are involved in a variety of biological processes, including embryonic development, cell growth, 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.

### Properties

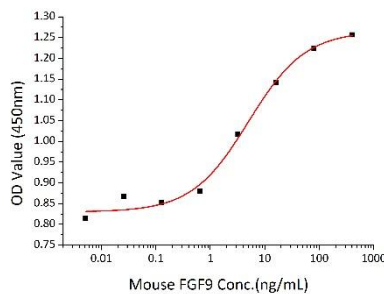
---

<b>Synonyms:</b>	Fibroblast growth factor 9, FGF-9, Glia-activating factor, GAF, HBGF-9, Fgf9, Fgf-9
<b>Gene ID:</b>	14180
<b>Endotoxin:</b>	< 0.1 EU/µg of the protein by LAL method.
<b>Description:</b>	High quality, high purity and low endotoxin recombinant Recombinant Mouse FGF-9 Protein (RP01840LQ), tested reactivity in E. coli and has been validated in SDS-PAGE. 100% guaranteed.
<b>Purity:</b>	≥ 90 % as determined by SDS-PAGE.
<b>Storage:</b>	Store at -70°C. This product is stable at ≤ -70°C 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.

## 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 ED50 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.