

Active Recombinant Mouse Fgf9 protein, His-tagged

Cat. No. Fgf9-187M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Mouse Fgf9 protein(P54130)(1~208 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Mouse
Source	E.coli
ProteinLength	1-208 aa
Form	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Fibroblast Growth Factor 9 (FGF9) 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 was isolated as a secreted factor that exhibits a growth-stimulating effect on cultured glial cells. In nervous system, this protein is produced mainly by neurons and may be important for glial cell development. Besides, Fibroblast Growth Factor Receptor 1 (FGFR1) has been identified as an interactor of FGF9, thus a binding ELISA assay was conducted to detect the interaction of recombinant mouse FGF9 and recombinant mouse FGFR1. Briefly, FGF9 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100ul were then transferred to FGFR1-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and

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incubated for 1h with anti-FGF9 pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50µ stop solution to the wells and read at 450nm immediately. The binding activity of FGF9 and FGFR1 was shown, and this effect was in a dose dependent manner.

Molecular Mass	24.7kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 95% as determined by SDS-PAGE.
Storage	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Fgf9 fibroblast growth factor 9 [<i>Mus musculus</i>]
Official Symbol	Fgf9
Synonyms	FGF9; fibroblast growth factor 9; GAF; FGF-9; HBGF-9; elbow knee synostosis; glia activating factor; glia-activating factor; Eks;
Gene ID	14180
mRNA Refseq	NM_013518

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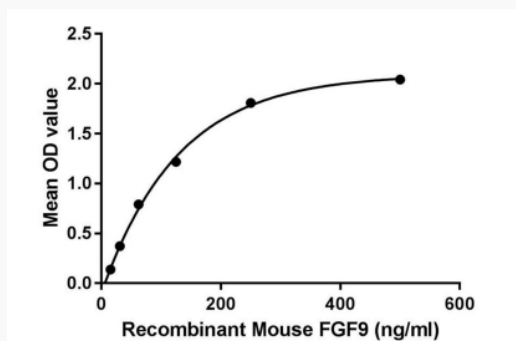
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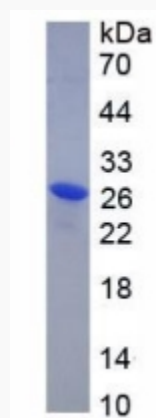
Protein Refseq

NP_038546

Activity



SDS-PAGE



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