

Active Recombinant Human FGF9 protein, His-tagged

Cat. No. FGF9-647H Lot. No. (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human FGF9 protein(P31371)(1~208 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
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. FGF9 secreted by HSC is a candidate activating ligand for hepatocyte FGFR4 functions, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human FGF9 and recombinant human FGFR4. Briefly, biotin-linked FGF9 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to FGFR4-coated microtiter wells and incubated for 1h at 37°C. Wells were washed with PBST 3 times

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and incubation with Streptavidin-HRP for 30 min, then wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37°C. Finally, add 50 µstop solution to the wells and read at 450 nm immediately. The binding activity of FGF9 and FGFR4 was shown, the EC50 for this effect is 0.23 ug/mL.

Molecular Mass	27.1kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 90% 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 (glia-activating factor) [Homo sapiens]
Official Symbol	FGF9
Synonyms	FGF9; fibroblast growth factor 9 (glia-activating factor); fibroblast growth factor 9; FGF-9; HBGF-9; heparin-binding growth factor 9; GAF; SYNS3; HBFG-9; MGC119914; MGC119915;
Gene ID	2254
mRNA Refseq	NM_002010

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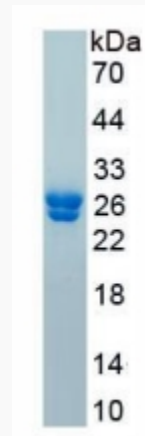
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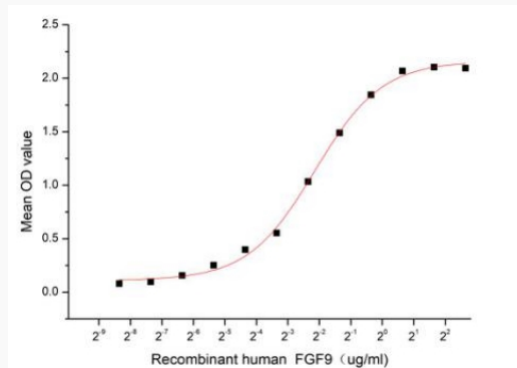
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UniProt ID P31371

SDS-PAGE



Activity



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