

## Active Recombinant Mouse FGF1 protein, His-tagged

Cat. No. Fgf1-7205M Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Active Recombinant Mouse FGF1 protein(P61148)(16~155 aa), fused with N-terminal His tag, was expressed in E.coli.

**Species** Mouse

**Source** E.coli

**ProteinLength** 16-155 aa

**Form** Lyophilized from sterile 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.

**Bio-activity** (FGF1) Fibroblast growth factor 1 belongs to the fibroblast growth factor (FGF) family. FGF1 plays an important role in the regulation of cell survival, cell division, angiogenesis, cell differentiation and cell migration. FGF1 is thought to stimulate the proliferation of 3T3 fibroblasts. Thus, a cell proliferation assay was conducted to detect the bioactivity of recombinant mouse FGF1 using 3T3 fibroblasts. Briefly, 3T3 cells were seeded into triplicate wells of 96-well plates at a density of 2,000 cells/well and allowed to attach overnight, then the medium was replaced with serum-free standard DMEM prior to the addition of various concentrations of FGF1. After incubated for 48h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10 $\mu$  of CCK-8 solution was added to each well of the plate, then the absorbance at 450nm was measured using a microplate reader after incubating the plate for 1-4 hours at 37°C. Proliferation of 3T3

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cells after incubation with FGF1 for 48h observed by inverted microscope was shown. Cell viability was assessed by CCK-8 (Cell Counting Kit-8 ) assay after incubation with recombinant FGF1 for 48h. It was obvious that FGF1 significantly increased cell viability of 3T3 cells.

<b>Molecular Mass</b>	17.1kDa
<b>Endotoxin</b>	<1.0EU per 1µg (determined by the LAL method).
<b>Purity</b>	> 97% as determined by SDS-PAGE.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
<b>Reconstitution</b>	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0mg/mL. Do not vortex.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Fgf1 fibroblast growth factor 1 [ Mus musculus ]</a>
<b>Official Symbol</b>	<a href="#">FGF1</a>
<b>Synonyms</b>	FGF1; fibroblast growth factor 1; aFGF; HBGF-1; acidic fibroblast growth factor; heparin-binding growth factor 1; fibroblast growth factor 1 (acidic); Fam; Fgfa; Dffrx; Fgf-1;
<b>Gene ID</b>	<a href="#">14164</a>
<b>mRNA Refseq</b>	<a href="#">NM_010197</a>

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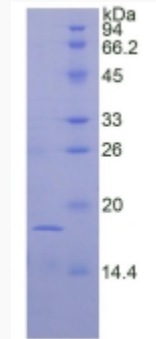
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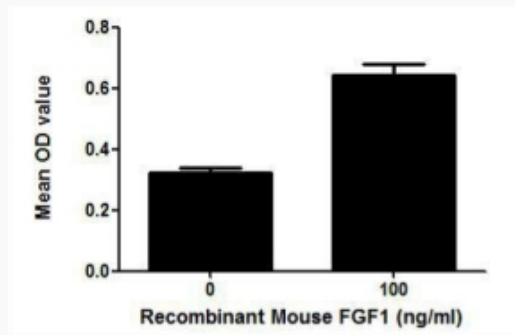
Protein Refseq

NP\_034327

SDS-PAGE



Activity



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