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Datasheet for ABIN6239853 FGF1 Protein (AA 16-155) (His tag)

3 Images



Overview

| Quantity: | 50 µg |
|-------------------------------|---|
| Target: | FGF1 |
| Protein Characteristics: | AA 16-155 |
| Origin: | Mouse |
| Source: | Escherichia coli (E. coli) |
| Biological Activity: | Active |
| Purification tag / Conjugate: | This FGF1 protein is labelled with His tag. |
| Application: | Activity Assay (AcA), Cell Culture (CC) |

Product Details

| Characteristics: | Tag location: N-terminal His Tag |
|------------------------------|--|
| Purity: | > 97 % |
| Biological Activity Comment: | (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, 10µL of CCK-8 solution was added to each well of the plate, then the absorbance at 450nm was measured |

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN6239853 | 09/10/2023 | Copyright antibodies-online. All rights reserved. using a microplate reader after incubating the plate for 1-4 hours at 37°C. Proliferation of 3T3 cells after incubation with FGF1 for 48h observed by inverted microscope was shown in Figure 1. Cell viability was assessed by CCK-8 (Cell Counting Kit-8) assay after incubation with recombinant FGF1 for 48h. The result was shown in Figure 2. It was obvious that FGF1 significantly increased cell viability of 3T3 cells.

Target Details

| Target: | FGF1 |
|-------------------|---|
| Alternative Name: | Fibroblast Growth Factor 1, Acidic (FGF1) (FGF1 Products) |
| Background: | Alternative Names: ECGF, AFGF, ECGFA, ECGFB, FGF-Alpha, FGFA, HBGF1, ECGFB, HBGF1, Acidic Fibroblast Growth Factor, heparin-binding growth factor 1, Endothelial Cell Growth Factor, Beta |
| Molecular Weight: | 18kDa |
| UniProt: | P61148 |
| Pathways: | RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway |

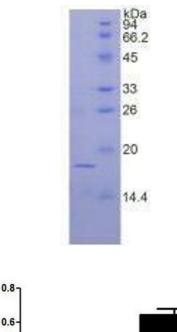
Application Details

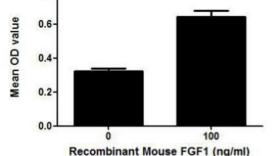
| Application Notes: | Isoelectric Point: 7.2 |
|--------------------|------------------------|
| Restrictions: | For Research Use only |
| | |

Handling

| Format: | Lyophilized |
|--------------------|---|
| Buffer: | 20 mM Tris, 150 mM NaCl, pH 8.0, containing 1 mM EDTA, 1 mM DTT, 0.01 % SKL, 5 % Trehalose and Proclin300. |
| Preservative: | Dithiothreitol (DTT), Other preservative, ProClin |
| Precaution of Use: | This product contains ProClin and Dithiothreitol (DTT): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only. |

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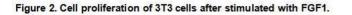


Image 1.

Image 2. (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, 10µL 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 cells after incubation with FGF1 for 48h observed by inverted microscope was shown in Figure 1. Cell viability was assessed by CCK-8 (Cell Counting Kit-8) assay after incubation with recombinant FGF1 for 48h. The result was shown in Figure 2. It was obvious that FGF1 significantly increased cell viability of 3T3 cells.



Figure 1. Cell proliferation of 3T3 cells after stimulated with FGF1.

(A) 3T3 cells cultured in DMEM, stimulated with 100ng/mL FGF1 for 48h;

(B) Unstimulated 3T3 cells cultured in DMEM for 48h.

Image 3.

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