

Active Recombinant Mouse Reg3b protein, His-tagged

Cat. No. Reg3b-1793M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Mouse Reg3b protein(P35230)(27-175 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Mouse
Source	E.coli
ProteinLength	27-175 aa
Form	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Bio-activity	Regenerating Islet Derived Protein 3 Beta (REG3b) also known as PAP-I and HIP is bactericidal C-type lectin which acts against several intestinal Gram-positive bacteria and Gram-negative bacteria. The Reg family proteins have been implicated in a range of physiological processes including acting as acute phase reactants, lectins, survival/growth factors for insulin-producing pancreatic beta-cells, neural cells, and epithelial cells of the digestive system. To test the effect of REG3b on cell proliferation of SK-N-SH, SK-N-SH cells were seeded into triplicate wells of 96-well plates at a density of 5,000 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 REG3b. After incubated for 72h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10μ of CCK-8 solution was added to each well of the plate, then measure the

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absorbance at 450nm using a microplate reader after incubating the plate for 1-4 hours at 37°C .Cell proliferation of SK-N-SH cells after incubation with REG3b for 72h observed by inverted microscope was shown. The dose-effect curve of REG3b was shown. It was obvious that REG3b significantly promoted cell proliferation of SK-N-SH cells. The ED50 for this effect is typically 3.685 - 84.37 ng/mL.

Molecular Mass 20.4kDa

Purity > 97%

Storage Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.

Reconstitution Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name Reg3b regenerating islet-derived 3 beta [Mus musculus (house mouse)]

Official Symbol Reg3b

Synonyms Reg3b; HIP; Pap; PAP1; REG-III; regenerating islet-derived 3 beta; regenerating islet-derived protein 3-beta; REG-3-beta; reg III-beta; RegIII (beta); pancreatitis-associated protein 1; regenerating islet-derived protein III-beta

Gene ID 18489

mRNA Refseq NM_011036

Protein Refseq NP_035166

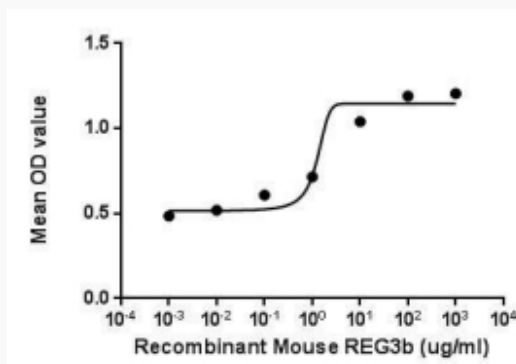
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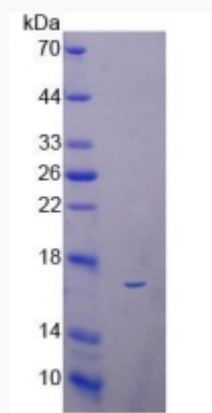
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UniProt ID P35230

Activity



SDS-PAGE



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