

Mouse Reg3B protein, His tag (active)

Cat. No. GTX00307-pro

Application	Functional Assay
Species	Mouse

Package
10 µg

APPLICATION

Application Note

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 5000 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, 10 µl of CCK-8 solution was added to each well of the plate, then measure the 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.

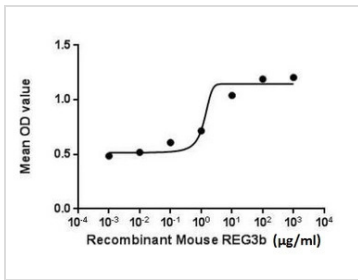
Observed MW 17 kDa.

PROPERTIES

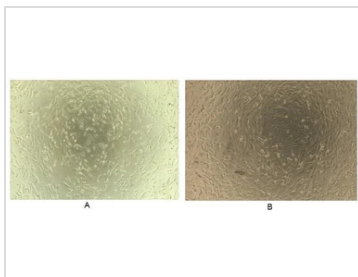
Form	Lyophilized powder
Buffer	Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose.
Preservative	ProClin 300
Storage	For short-term storage (1-2 weeks), store at 4°C. For long-term storage, store at -20°C or below. After reconstitution, keep as concentrated solution. Avoid freeze-thaw cycles.
Region/Sequence	N-terminal His-Tag; Glu27~Gly175 (NP_035166.1)
Expression System	E. coli
Purity	> 97%
Endotoxin	< 1 EU/µg
Conjugation	Unconjugated
Note	For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.



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DATA IMAGES

GTX00307-pro Functional Assay Image

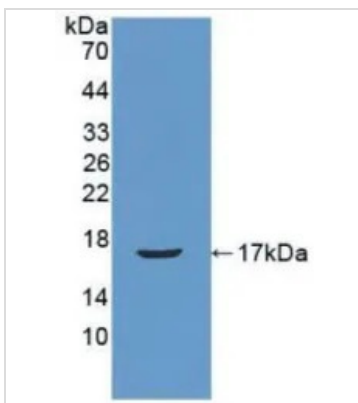
The dose effect curve of GTX00307-pro Mouse Reg3B protein (active) on SK-N-SH cells. After incubation of Mouse Reg3B protein (active) for 72 hrs, cell proliferation was measured by Cell Counting Kit-8 (CCK-8).


GTX00307-pro Functional Assay Image

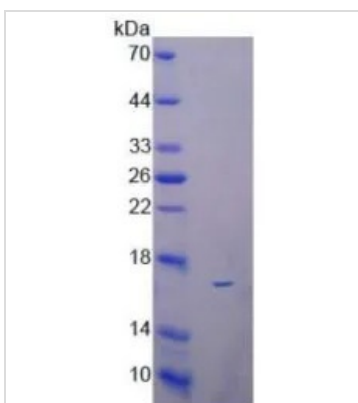
Cell proliferation effect of GTX00307-pro Mouse Reg3B protein (active).

(A) Unstimulated SK-N-SH cells cultured in serum-free DMEM for 72hrs.

(B) SK-N-SH cells cultured in DMEM, stimulated with 10 ng/ml REG3b 72hrs.


GTX00307-pro Image

WB analysis of GTX00307-pro Mouse Reg3B protein (active).


GTX00307-pro Image

SDS-PAGE analysis of GTX00307-pro Mouse Reg3B protein (active).



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