DEC 15, 2017

OPEN ACCESS

DOI:
[dx.doi.org/10.17504/protocols.io.kjicuke](https://doi.org/10.17504/protocols.io.kjicuke)

External link:
<https://doi.org/10.1371/journal.pone.0189722>

Protocol Citation: Shiwei Liu, Xin Li, Yaru Wu, Ruixue Duan, Jiaxin Zhang, Fang Du, Qi Zhang, Yuanbin Li, and Naishi Li 2017. Effects of Vaspin on Pancreatic β Cell Secretion via PI3K/Akt and NF- κ B Signaling Pathways. **protocols.io**
<https://dx.doi.org/10.17504/protocols.io.kjicuke>

MANUSCRIPT CITATION:
 Liu S, Li X, Wu Y, Duan R, Zhang J, Du F, Zhang Q, Li Y, Li N (2017) Effects of vaspin on pancreatic β cell secretion via PI3K/Akt and NF- κ B signaling pathways. PLoS ONE 12(12): e0189722. doi: [10.1371/journal.pone.0189722](https://doi.org/10.1371/journal.pone.0189722)

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Effects of Vaspin on Pancreatic β Cell Secretion via PI3K/Akt and NF- κ B Signaling Pathways

PLOS One

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Shiwei Liu

MATERIALS

MATERIALS

Cell culture medium **Contributed by users**

fetal bovine serum **Contributed by users**

recombinant human vaspin **Contributed by users**

Antibodies against IRS-2, p-IRS-2 (Ser731), Akt, p-Akt (Thr308), mTOR, p-mTOR (Ser2448), p70S6K, p-p70S6K (Thr389), NF- κ B P65 **Contributed by users**

Rat insulin ELISA kit **Contributed by users**

Cell Counting Kit-8 **Contributed by users**

Protocol status: Working

Created: Nov 02, 2017

Last Modified: Feb 21, 2018

PROTOCOL integer ID:
8522

Keywords: vaspin , INS-1
cells , insulin signaling pathway

Rat insulinoma cells (INS-1) were cultured in RPMI1640 me...

1

For determining the appropriate concentration of vaspin, IN.

2

In order to detect whether vaspin can improve insulin secre..

3

Based on the biological effects of mTOR/S6K1 signaling pat..

4

In order to determine whether vaspin can improve insulin s...

5

Cells were lysed on ice for 10 min in RIPA buffer and then e..

6

Total RNA was extracted from INS-1 cells using the Total R...

7

INS-1 cells of same amount (2.5×10^5 cell/well) were seede...

8

The proliferation activity of INS-1 cells was measured using..

9

As a first step, the rats were randomly assigned into norma..

10

The oral glucose tolerance test (OGTT) was performed in ov.

11

At the end of intervention, overnight-fasted rats were intra..

12

Rats were fasted overnight and anesthetized with sodium p..

13