

Accepted Manuscript

Activation of activin type IB receptor signals in pancreatic β cells leads to defective insulin secretion through the attenuation of ATP-sensitive K^+ channel activity

Masatoshi Nomura, Hidetaka Morinaga, Hai-Lei Zhu, Lixiang Wang, Nao Hasuzawa, Ryoichi Takayanagi, Noriyoshi Teramoto

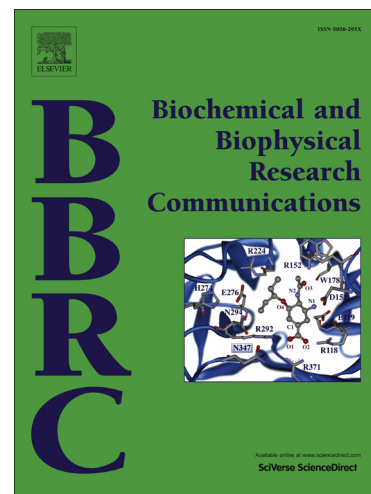
PII: S0006-291X(14)01046-8
DOI: <http://dx.doi.org/10.1016/j.bbrc.2014.05.141>
Reference: YBBRC 32236

To appear in: *Biochemical and Biophysical Research Communications*

Received Date: 23 May 2014

Please cite this article as: M. Nomura, H. Morinaga, H-L. Zhu, L. Wang, N. Hasuzawa, R. Takayanagi, N. Teramoto, Activation of activin type IB receptor signals in pancreatic β cells leads to defective insulin secretion through the attenuation of ATP-sensitive K^+ channel activity, *Biochemical and Biophysical Research Communications* (2014), doi: <http://dx.doi.org/10.1016/j.bbrc.2014.05.141>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



Activation of activin type IB receptor signals in pancreatic β cells leads to defective insulin secretion through the attenuation of ATP-sensitive K^+ channel activity

Masatoshi Nomura¹, Hidetaka Morinaga¹, Hai-Lei Zhu², Lixiang Wang¹, Nao Hasuzawa¹, Ryoichi Takayanagi¹, Noriyoshi Teramoto^{2, 3*}

¹Department of Medicine and Bioregulatory Science, Graduate School of Medical Sciences, Kyushu University, 3-1-1 Maidashi, Higashi Ward, Fukuoka 812-8582, Japan

²Department of Pharmacology, Faculty of Medicine, Saga 849-8501, Japan

³Laboratory of Biomedical Engineering, Graduate School of Biomedical Engineering, Tohoku University, 4-1 Seiryō, Aoba Ward, Sendai 980-8575, Japan

Key words: β cells; activin receptor; K_{ATP} channels; insulin secretion; pancreas; transgenic mouse

*Author for correspondence: Noriyoshi Teramoto

Department of Pharmacology, Faculty of Medicine, Saga 849-8501, Japan

Tel: +81-952-34-3626, Fax: +81-952-34-2013

E-mail: noritera@cc.saga-u.ac.jp

Download English Version:

<https://daneshyari.com/en/article/10754887>

Download Persian Version:

<https://daneshyari.com/article/10754887>

[Daneshyari.com](https://daneshyari.com)