

Accepted Manuscript

Title: $1\alpha,25$ -Dihydroxyvitamin D₃ enhances TRPV6 transcription through p38 MAPK activation and GADD45 expression

Authors: Michiyasu Ishizawa, Daisuke Akagi, Jumpei Yamamoto, Makoto Makishima



PII: S0960-0760(17)30149-8
DOI: <http://dx.doi.org/doi:10.1016/j.jsbmb.2017.05.013>
Reference: SBMB 4951

To appear in: *Journal of Steroid Biochemistry & Molecular Biology*

Received date: 25-11-2016
Revised date: 25-5-2017
Accepted date: 28-5-2017

Please cite this article as: Michiyasu Ishizawa, Daisuke Akagi, Jumpei Yamamoto, Makoto Makishima, $1\alpha,25$ -Dihydroxyvitamin D₃ enhances TRPV6 transcription through p38 MAPK activation and GADD45 expression, *Journal of Steroid Biochemistry and Molecular Biology* <http://dx.doi.org/10.1016/j.jsbmb.2017.05.013>

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.

1 α ,25-Dihydroxyvitamin D₃ enhances TRPV6 transcription through p38 MAPK activation and GADD45 expression

Michiyasu Ishizawa^a, Daisuke Akagi^{a,b}, Jumpei Yamamoto^{a,b}, and Makoto Makishima^{a,*}

^aDivision of Biochemistry, Department of Biomedical Sciences, Nihon University School of Medicine, 30-1 Oyaguchi-kamicho, Itabashi-ku, Tokyo 173-8610, Japan

^bDepartment of Applied Biological Science, Nihon University College of Bioresource Sciences, Fujisawa, Kanagawa 252-8510, Japan

*Corresponding author. Phone/Fax: +81-3-3972-8199. E-mail: makishima.makoto@nihon-u.ac.jp (M. Makishima).

Highlights

- p38 MAPK inhibitor reduces 1,25(OH)₂D₃-induced TRPV6 expression in intestinal cells.
- p38 α knockdown also reduces 1,25(OH)₂D₃-induced TRPV6 expression.
- p38 MAPK inhibition does not affect 1,25(OH)₂D₃-induced CYP24A1 expression.
- 1,25(OH)₂D₃-induced GADD45A expression is also involved in TRPV6 induction.
- p38 α and GADD45 α are involved in an enhanced vitamin D signaling on TRPV6 expression.

Download English Version:

<https://daneshyari.com/en/article/5513039>

Download Persian Version:

<https://daneshyari.com/article/5513039>

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