

Inhibition of tachykinin NK₁ receptor using aprepitant induces apoptotic cell death and G1 arrest through Akt/p53 axis in pre-B acute lymphoblastic leukemia cells

Samaneh Bayati, Davood Bashash, Shahin Ahmadian, Ava Safaroghli-Azar, Kamran Alimoghaddam, Ardeshir Ghavamzadeh, Seyed H. Ghaffari



PII: S0014-2999(16)30567-2
DOI: <http://dx.doi.org/10.1016/j.ejphar.2016.09.006>
Reference: EJP70831

To appear in: *European Journal of Pharmacology*

Received date: 7 August 2016
Revised date: 5 September 2016
Accepted date: 5 September 2016

Cite this article as: Samaneh Bayati, Davood Bashash, Shahin Ahmadian, Ava Safaroghli-Azar, Kamran Alimoghaddam, Ardeshir Ghavamzadeh and Seyed H Ghaffari, Inhibition of tachykinin NK₁ receptor using aprepitant induce apoptotic cell death and G1 arrest through Akt/p53 axis in pre-B acute lymphoblastic leukemia cells, *European Journal of Pharmacology* <http://dx.doi.org/10.1016/j.ejphar.2016.09.006>

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 galley proof before it is published in its final citable 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.

Inhibition of tachykinin NK₁ receptor using aprepitant induces apoptotic cell death and G1 arrest through Akt/p53 axis in pre-B acute lymphoblastic leukemia cells

Samaneh Bayati^{a,b}, Davood Bashash^c, Shahin Ahmadian^{a*}, Ava Safaroghli-Azar^c, Kamran Alimoghaddam^b, Ardeshir Ghavamzadeh^b, Seyed H. Ghaffari^{b*}

^a *Institute of Biochemistry and Biophysics, University of Tehran, P.O. Box 13145-1384, Tehran, Iran*

^b *Hematology, Oncology and Stem Cell Transplantation Research Center, Tehran University of Medical Sciences, Tehran, Iran*

^c *Department of Hematology and Blood banking, Faculty of Allied Medicine, Shahid Beheshti University of Medical Sciences, Tehran, Iran*

*Correspondence to: Dr. Shahin Ahmadian

Institute of Biochemistry and Biophysics (IBB), University of Tehran, P.O. Box 13145-1384, Tehran, Iran.

E-mail: sh.ahmadian@ut.ac.ir

Tel: +98 2166956983

fax: +98 2166404680

*Correspondence to: Dr. Seyed H. Ghaffari

Hematology, Oncology and Stem Cell Transplantation Research Center, Shariati Hospital, Tehran University of Medical Sciences, Tehran, Iran.

E-mail: shghaffari200@yahoo.com

Tel: +98 2184902665

fax: +98 2188004140

Abstract

Increasing number of genetic and cancer biology studies indicated a prominent role for tachykinin NK₁ receptor (NK₁R) in cancer cell growth and survival. Considering the fact that neoplastic lymphoid precursors in acute lymphoblastic leukemia (ALL) carry a three- to four-fold NK₁R expression as compared to normal lymphocytes,

Download English Version:

<https://daneshyari.com/en/article/8530060>

Download Persian Version:

<https://daneshyari.com/article/8530060>

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