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### Nrf2-Mediated HO-1 Induction Coupled with the ERK Signaling ... - NCBI

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作者: JK Kim - 2014 - 被引用次数: 24 - 相关文章

2014年7月9日 - Keywords: **caffeic acid phenethyl ester** (CAPE), indirect **antioxidant** ... and **antioxidant** enzymes **through Nrf2** activation in **hepatic** cells. Human hepatoma HepG2 cell, a well-differentiated transformed **cell line**, is used in this study. ... exerts indirect **antioxidant** capacity by **up-regulating** the expression of ...

### Induction of Nrf2-mediated phase II detoxifying/antioxidant enzymes in ...

<https://www.ncbi.nlm.nih.gov/pubmed/27743232> - 翻译此页

作者: CB Ahn - 2016

2016年10月15日 - Induction of **Nrf2-mediated** phase II detoxifying/**antioxidant** enzymes in **vitro** by chitosan-**caffeic acid** against hydrogen peroxide-induced hepatotoxicity **through** JNK/ERK **pathway**. ... and its in **vitro** hepatoprotective ability against hydrogen peroxide-induced **hepatic** damage in **liver cells** was evaluated.

### Nrf2-mediated HO-1 induction coupled with the ERK signaling - NCBI

[www.ncbi.nlm.nih.gov/pubmed/25007817](http://www.ncbi.nlm.nih.gov/pubmed/25007817) ▾ 翻译此页

作者: JK Kim - 2014 - 被引用次数: 24 - 相关文章

2014年7月9日 - **Nrf2-mediated** HO-1 induction coupled with the ERK signaling **pathway** contributes to indirect **antioxidant** capacity of **caffeic acid phenethyl ester** in HepG2 **cells**. ... 2 (Nrf2)-mediated signaling **pathway** on the indirect **antioxidant** capacity ... phosphorylation **level** of extracellular signal-regulated kinase (ERK) ...

Name of journal: *World Journal of Gastroenterology*

ESPS Manuscript NO: 31415

Manuscript Type: ORIGINAL ARTICLE

*Basic Study*

**Caffeic acid phenethyl ester up-regulates antioxidant levels in the hepatic stellate cell line T6 via a Nrf2-mediated mitogen activated protein kinases pathway *in vitro***

Ning Yang, Juan-Juan Shi, Feng-Ping Wu, Mei Li, Xin Zhang, Ya-Ping Li,  
Song Zhai, Xiao-Li Jia, Shuang-Suo Dang

**Abstract**

**AIM**

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Caffeic acid phenethyl ester up-regulates antioxidant levels in the hepatic stellate

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9 Jul 2014 ... Keywords: **caffeic acid phenethyl ester** (CAPE), indirect **antioxidant** activity, heme ... signal transduction **pathways** including **mitogen-activated protein kinase** ( MAPK), ... and **antioxidant enzymes** through **Nrf2** activation in **hepatic cells**. ... To examine **Nrf2** induction by CAPE, the protein **levels** of **Nrf2** in the ...

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9 Jul 2014 ... **Nrf2-mediated** HO-1 induction coupled with the ERK signaling **pathway** contributes to indirect **antioxidant** capacity of **caffeic acid phenethyl ester** in HepG2 cells. .... factor 2 (Nrf2)-mediated signaling **pathway** on the indirect **antioxidant** ... signal-regulated kinase (ERK) among several **protein kinases** tested.

[\[PDF\] The Role of the Nrf2/ARE Antioxidant System in Preventing ...](http://www.mdpi.com/2079-9721/4/4/34/pdf)

[www.mdpi.com/2079-9721/4/4/34/pdf](http://www.mdpi.com/2079-9721/4/4/34/pdf)

11 Nov 2016 ... negative side of **Nrf2**. When **over-activated**, it can cause (not ... several *in vitro* assays to measure **antioxidant** capacities [3]. .... Structures of curcumin (A); **caffeic acid phenethyl ester** (CAPE) (B); ..... **Protein** turnover is needed to help **regulate** signaling .... It starts when endothelial **cells** that **line** the intima.

[Frontiers | Hepatoprotective and Anti-fibrotic Agents: It's Time to ...](http://journal.frontiersin.org/article/10.3389/fphar.2015.00303/full)

[journal.frontiersin.org/article/10.3389/fphar.2015.00303/full](http://journal.frontiersin.org/article/10.3389/fphar.2015.00303/full)

11 Dec 2015 ... In this process, **hepatic stellate cells** (HSC) and portal fibroblasts are major collagen-producing **cells**. .... and **regulated** iron and calcium **levels** in experimental rat liver ... The intraperitoneal application of **phenethyl ester** of **caffeic acid** was ... A subsequent study *in vitro* study performed in HSC-T6 **cells** ...

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## Nrf2-Mediated HO-1 Induction Coupled with the ERK Signaling ... - NCBI

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作者: JK Kim - 2014 - 被引用次数: 26 - 相关文章

2014年7月9日 - Keywords: **caffeic acid phenethyl ester** (CAPE), indirect **antioxidant** activity, heme ... signal transduction **pathways** including **mitogen-activated protein kinase** (MAPK), ... and **antioxidant** enzymes **through Nrf2** activation in **hepatic cells**. ... To examine **Nrf2** induction by CAPE, the protein **levels** of **Nrf2** in the ...

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作者: JK Kim - 2014 - 被引用次数: 26 - 相关文章

2014年7月9日 - **Nrf2-mediated** HO-1 induction coupled with the ERK signaling **pathway** contributes to indirect **antioxidant** capacity of **caffeic acid phenethyl ester** in HepG2 **cells**. ... factor 2 (Nrf2)-mediated signaling **pathway** on the indirect **antioxidant** ... signal-regulated **kinase** (ERK) among several **protein kinases** tested.

## Caffeic acid phenethyl ester inhibits liver fibrosis in rats - NCBI

<https://www.ncbi.nlm.nih.gov> > NCBI > Literature > PubMed Central (PMC) - 翻译此页

作者: M Li - 2015 - 被引用次数: 6 - 相关文章

2015年4月7日 - Core tip: It has been demonstrated that **caffeic acid phenethyl ester** (CAPE) ... effects and **antioxidant** activity of CAPE in rats with liver fibrosis, as well as ... liberate mediators and assist in the **activation** of **hepatic stellate cells** (HSCs), ..... and inhibit **activation** of HSCs **through up-regulated Nrf2** expression.

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Saponins from Platycodon grandiflorum inhibit **hepatic** lipogenesis **through** induction of SIRT1 and .... **liver** fibrosis in rats by inducing **Nrf2-mediated antioxidant** enzymes. .... AMP-activated **protein kinase** (AMPK) plays a central role in controlling **hepatic** (t-BHP)-induced hepatotoxicity in HepG2 **cell**