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Basic Study

Inhibition of matrix metalloproteinase-9 secretion by dimethyl sulfoxide and cyclic adenosine monophosphate in human monocytes

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Nuclear-targeted inhibition of NF- κ B on MMP-9 production ...

<https://www.sciencedirect.com/science/article/pii/S0009279710000116>

Mar 30, 2010 · Therefore, we used TNF- α to induce **MMP-9** production in **human** monocytic THP-1 cells, while EK5 was found to reduce extracellular expression of **MMP-9** by diminishing its protein and mRNA levels. Since the **inhibition** percentage of EK5 on TIMP-1 was similar to its cytotoxicity at a concentration of 20 μ M (38% vs. 42%), raising the possibility that ...

Cited by: 77

Author: Yung Chen Chou, Joen Rong Sheu, Chi ...

Publish Year: 2010

Brain-Derived Neurotrophic Factor Induces Matrix ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3648073>

To determine whether **MMP-9** transcription is dependent on ERK1/2 activity, cortical neurons were stimulated for 6 h with BDNF in the presence or absence of U0126 or PD98059. **Inhibition** of ERK1/2 blocked **MMP-9** mRNA upregulation in response to BDNF (Fig. 2B). Convergent results were obtained using a luciferase reporter assay system.

Cited by: 66

Author: Bozena Kuzniewska, Emilia Rejmak, Ann...

Publish Year: 2013

Production of matrix metalloproteinase-9 by activated ...

<https://jlb.onlinelibrary.wiley.com/doi/10.1189/jlb.0904498>

LY294002, wortmannin, or SH-5 inhibit production of **MMP-9** by **human** primary **monocytes** (5×10^6 /ml in DMEM), which were stimulated with (A) LPS or treated with (B) phosphatidylinositol 3,4,5-trisphosphate (PIP3) kinase **inhibitors** (LY294002 and wortmannin) or (C) SH-5 for 30 min prior to the addition of LPS. Culture supernatants were harvested after 48 h and analyzed for **MMP-9** ...

Cited by: 154

Author: Yunbiao Lu, Larry M. Wahl

Publish Year: 2005

Effect of dimethyl sulfoxide on human carcinoma cells ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC369186>



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Inhibition of matrix metalloproteinase-9 activity improves ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2730856>

Introduction. Kawasaki disease (KD) is a vasculitis affecting mainly children, and is characterized by clinical signs and symptoms of massive multi-system inflammation [1,2]. The diagnostic criteria are prolonged fever together with at least four of the following: non-purulent bilateral conjunctivitis, polymorphous skin rash, oral-mucosal changes, extremity changes and cervical lymphadenopathy.

Cited by: 65

Author: A. C. Lau, T. T. Duong, S. Ito, G. J. Wilso...

Publish Year: 2009

Secretion of matrix metalloproteinase-9 by the ...

<https://onlinelibrary.wiley.com/doi/full/10.1046/j.1365-2443.2003.00652.x>

Introduction. **Matrix** metalloproteinases (MMPs) are a family of neutral proteinases that catalyse the destruction of the extracellular **matrix** (Liotta 1986). MMPs are secreted from the cells as inactive zymogens and require Zn or Ca ions for their activation by proteolytic cleavage (Stetler-Stevenson et al. 1989). Among MMPs, MMP-9 (gelatinase B) appears to play an important role in a wide ...

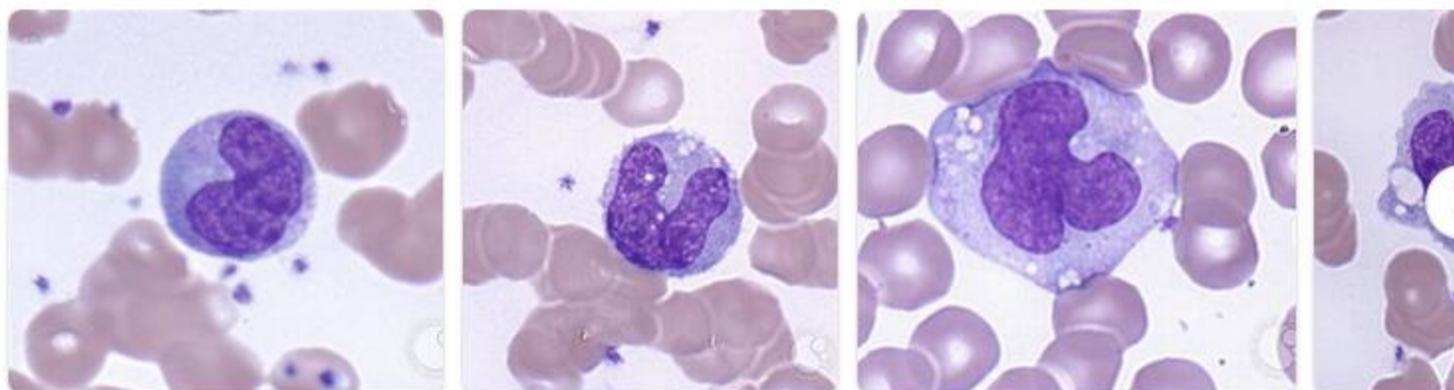
Cited by: 122

Author: A. R. M. Ruhul Amin, Takeshi Senga, My...

Publish Year: 2003

Images of Inhibition of Matrix Metalloproteinase-9 Secretion ...

<bing.com/images>



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Secretion of matrix metalloproteinase-9 by macrophages, in ...

<https://academic.oup.com/femspd/article/45/2/159/646577>

Aug 01, 2005 · Abstract. We have previously shown that **matrix metalloproteinase-9** (MMP-9) activity is

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[\[PDF\] Production of matrix metalloproteinase-9 by activated ...](#)<https://jlb.onlinelibrary.wiley.com/doi/pdf/10.1189/jlb.0904498>

Production of MMPs by **human monocytes**/macrophages following stimulation with agents such as concanavalin A, LPS, or ECM components occurs, in part, through a prostaglandin E 2 (PGE 2)-**cyclic adenosine monophosphate**-dependent pathway [4–8]. In contrast, stimulation of **monocytes** with GM-CSF and/or TNF- induces MMP-9 through a PG-independent ...

Cited by: 156

Author: Yunbiao Lu, Larry M. Wahl

Publish Year: 2005

[Matrix metalloproteinase 2 and matrix metalloproteinase 9 ...](#)<https://www.sciencedirect.com/science/article/pii/S1079210402917361>

Jun 01, 2003 · **Matrix metalloproteinase 2** and **matrix metalloproteinase 9** expression in **human oral squamous cell carcinoma** and the effect of protein kinase C ... Stock solutions of ST were prepared in **dimethyl sulfoxide** and stored at -20°C. ... H7 not only acts as a PKC **inhibitor** but also as a **cyclic adenosine monophosphate**-dependent kinase **inhibitor**. 33 ...

Cited by: 66

Author: Chung-Hung Tsai, Yih-Shou Hsieh, Shun-Fa ...

Publish Year: 2003

[Production of matrix metalloproteinase-9 by activated ...](#)<https://jlb.onlinelibrary.wiley.com/doi/10.1189/jlb.0904498>

Matrix metalloproteinase-9 (MMP-9) is considered to be an important component in the progression of inflammation. **Monocytes**/macrophages are prominent at inflammation sites, and activation of these cells by stimulants, such as lipopolysaccharide (LPS) or tumor necrosis factor α and granulocyte macrophage-colony stimulating factor, leads to the production of significant amounts of MMP-9.

Cited by: 156

Author: Yunbiao Lu, Larry M. Wahl

Publish Year: 2005

[\(PDF\) Matrix metalloproteinase-9 \(92 kDa gelatinase/type ...](#)