In Vitro Antioxidant Activity And In Vivo Hepatoprotective | 809832a5c45e52356b7533d4f3492ae3

Bioassay - Wikipedia
Measurement of antioxidant activity - ScienceDirect

JNK Signaling Pathway - Selleckchem.com
In Vitro Antidiabetic Activity and Mechanism of Action of Methods for in vitro evaluating antimicrobial activity: A Lion's mane mushrooms: Benefits and side effects

30/10/2015 · Antioxidant activity depends on the presence of its bio-active compounds mainly polyphenols, carotenoids, and vitamin E and C (27). This suggests that the concentration of the bioactive compounds present in the extract is important to showing antioxidant activity. Thus, higher concentration of extracts shows higher antioxidant activity. In this study, the reducing ...

01/10/2015 · Antioxidant activity of many polyphenol compounds and extracts has been evaluated in DNA model systems for their potential as Cellular assays for evaluation of antioxidant activity. Development of the in vitro chemical assays and use of biologically relevant macromolecule model systems have enabled evaluation of intrinsic antioxidant ...

A method for the screening of antioxidant activity is reported as a decolorization assay applicable to both lipophilic and hydrophilic antioxidants, including flavonoids, hydroxycinnamates, carotenoids, and plasma antioxidants. The pre-formed radical monocation of 2,2'-azinobis-(3-ethylbenzothiazoline-6-sulfonic acid) (ABTS*+) is generated by oxidation of ABTS with ...

01/04/2016 · A variety of laboratory methods can be used to evaluate or screen the in vitro antimicrobial activity of an extract or a pure compound. The most known and basic methods are the disk-diffusion and broth or agar dilution methods. Other methods are used especially for antifungal testing, such as poisoned food technique. To further study the antimicrobial effect ...

04/04/2013 · Multiple studies have demonstrated the antioxidant activity of pterostilbene in both in vitro and in vivo models illustrating both preventative and therapeutic benefits. The antioxidant activity of pterostilbene has been implicated in anticarcinogenesis, modulation of neurological disease, anti-inflammation, attenuation of vascular disease, and amelioration of ...

These included studies on the antioxidant, anti-inflammatory, antiviral, and antifungal properties of curcuminoids. Studies on the toxicity and anti-inflammatory properties of curcumin have included in vitro, animal, and human studies. A phase 1 human trial with 25 subjects using up to 8000 mg of curcumin per day for 3 months found no toxicity from curcumin. Five other human ...
Psychotria malayana Jack belongs to the Rubiacea and is widespread in Southeast Asian countries. It is traditionally used to treat diabetes. Despite its potential medicinal use, scientific proof of this pharmacological action and the toxic effect of this plant are still lacking. Hence, this study aimed to investigate the in vitro antidiabetic and antioxidant activities, ...

The antioxidant properties of lion's mane mushrooms may play a role in cancer prevention or treatment. The results of an in vitro study indicate that ...

Studies involving in vitro models have shown that myricetin causes the degradation of DNA. Additionally, myricetin, in the presence of Fe 3+ and Cu 2+, intensified this DNA degradation. The antioxidants catalase, superoxide dismutase, mannitol, and sodium azide in combination with Cu 2+ increased the DNA degradation activity of myricetin.

Previously we have demonstrated the antioxidant, phytochemical, and antibacterial activities of B. elliptica leaf extract. The present study was therefore undertaken to investigate the antidiabetic activity and mechanism of action using various in vitro models designed to stimulate specific antidiabetic targets. 2. Materials and Methods 2.1

A bioassay is an analytical method to determine the concentration or potency of a substance by its effect on living animals or plants (in vivo), or on living cells or tissues (in vitro). A bioassay can be either quantal or quantitative, direct or indirect. If the measured response is binary, the assay is quantal, if not, it is quantitative.

In addition, the SM extract was characterized in terms of bioactive compounds (total phenols and flavonoids content), antioxidant capacity (FRAP (The Ferric-Reducing Antioxidant Power) assay and electrochemical method), and antimicrobial activity. The results show that the SM extract contains a considerable amount of polyphenols (17.19 ± 1.32 mg GAE/g dw and ...}

In vitro methods for evaluation of antioxidant activity Various in vitro methods are available for the evaluation of antioxidant activity of different compounds. 134-137 5.1. Assay of superoxide anion radical scavenging activity SOD is an antioxidant enzyme involved in scavenging the ROS. 138 SOD converts the O₂⁻ to H₂O₂.

In vitro tests include a qualitative phytochemical screening, an antioxidant capacity tests utilizing DPPH (Bloise), a quantitative phenolic content ...

Antioxidant activity was observed. 44: Aqueous extract: Seeds: In vitro: 50, 100, and 150 ppm – Exhibited antioxidant activity. 45: Abbreviations: CAT, catalase; FRAP, ferric reducing antioxidant power; GSH, reduced glutathione; GSH-PX, glutathione peroxidase; LPF, lipofuscin; MDA, malondialdehyde; SOD, superoxide dismutase; TAOC, total ...

IQ 3 inhibits LPS-induced NF-κB/AP1 transcriptional activity in THP1-Blue cells with IC50 of 1.4 μM. IQ 3 also inhibits TNF-α and IL-6 production in vitro. S8867: Bentamapimod (AS602801) Bentamapimod (AS602801) is a novel, orally active JNK inhibitor with IC50 values of 80 nM, 90 nM and 230 nM for JNK1, JNK2 and JNK3 respectively.
25/10/2021 · The anticancer activity even at low concentrations of green and cost effective cobalt oxide nanoparticles using Geranium wallichianum leaves extract and ...