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Basic Study

Screening and identification of bioactive compounds from citrus against non-structural protein 3 protease of hepatitis c virus genotype 3a by fluorescence resonance energy transfer assay and mass spectrometry

Mahim Khan, Waqar Rauf, Fazal-e- Habib, Moazur Rahman, Mazhar Iqbal

Abstract

BACKGROUND

Hepatitis C virus genotype 3a (HCV G3a) is highly prevalent in Pakistan. Due to the elevated costs of available Food and Drug Administration approved drugs against

Match Overview

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Dec 05, 2004 · Luo et al. immobilized polyclone antibodies of compound A synthesized by adding a linker spacer to the benzene ring of RD3-4078 that has high inhibitory activity to HCV **NS3-NS4A protease** (IC₅₀ 8.5 μg/mL) for mimicking HCV **NS3-NS4A protease** to screen affinity **compounds** from an extract of the traditional Chinese Herb Phyllanthus urinaria L. by ...

Cited by: 168

Author: Xiaodong Huang, Liang Kong, Xin Li, Xu...

Publish Year: 2004

Irreversible Inhibitors of Serine, Cysteine, and Threonine ...

<https://pubs.acs.org/doi/10.1021/cr010182v>

Unbiased **Mass Spectrometry** Elucidation of the Targets and Mechanisms of Activity-Based Probes: A Case Study Involving Sulfonyl Fluorides. ... Boron Containing **Compounds** as **Protease** Inhibitors. Chemical Reviews 2012, 112 (7 ... Profiling of flaviviral NS2B-**NS3 protease** specificity provides a structural basis for the development of selective ...

Cited by: 1084

Author: James C. Powers, Juliana L. Asgian, Özl...

Publish Year: 2002

Inhibitory effects of Sudanese medicinal plant extracts on ...

https://www.researchgate.net/publication/12271550_Inhibitory_effects_of_Sudanese

...

Another Embelia species, *E. schimperi*, was identified among others as a potential source of anti-HCV **compounds** in a **screening** of seventy plant extracts from ...

ZINC – A Free Database of Commercially Available Compounds ...

<https://pubs.acs.org/doi/full/10.1021/ci049714+>

A critical barrier to entry into structure-based virtual **screening** is the lack of a suitable, easy to access database of purchasable **compounds**. We have therefore prepared a library of 727 842 molecules, each with 3D structure, using catalogs of **compounds** from vendors (the size of this

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Screening and identification of bioactive compounds from citrus ag.



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acvalue,activity,acname,targetname,targeturl,aidname,aid,sid,cid 1.7e-06,Active,IC50,Substance-P receptor (human),/gene/6869,Binding affinity **against** human Tachykinin ...

[Hepatitis C Virus NS5A Replication Complex Inhibitors: The ...](#)

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The **hepatitis C virus** (HCV) **nonstructural** (NS) **protein 5A** is a multi-functional **protein** that plays a central role in viral replication and assembly. Antiviral agents directly targeting NS5A are ...

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Telaprevir is a **hepatitis C** NS3/4A **protease** inhibitor approved by the US Food and Drug Administration as part of combination therapy for the management of chronic **hepatitis C virus** (HCV) **genotype** ...

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Materials and methods: **Compounds** were identified via Ultra-High-Performance Liquid Chromatography coupled with Electrospray Ionization with quadrupole Time of flight-**Mass Spectrometry**.

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Telaprevir is a **hepatitis C NS3/4A protease** inhibitor approved by the US Food and Drug Administration as part of combination therapy for the management of chronic **hepatitis C virus (HCV) genotype** ...

Flavonoids: promising natural compounds against viral ...

<https://www.researchgate.net/publication/317187389...>

With a FRET (**Fluorescence resonance energy transfer**) method, ASFV **protease** was assayed with a flavonoid library which was composed of sixty-five derivatives classified based on ten different ...

New Substructure Filters for Removal of Pan Assay ...

<https://pubs.acs.org/doi/abs/10.1021/jm901137j>

Feb 04, 2010 · Multistage **Screening** Reveals 3-Substituted Indolin-2-one Derivatives as Novel and Isoform-Selective **c-Jun N-terminal Kinase 3 (JNK3)** Inhibitors: Implications to Drug Discovery for Potential Treatment of Neurodegenerative Diseases. *Journal of Medicinal Chemistry* 2019, 62 (14) , 6645-6664. DOI: 10.1021/acs.jmedchem.9b00537.

Cited by: 2390 **Author:** Jonathan Bayldon Baell, Georgina A Holl...

Publish Year: 2010

Inhibitory effects of Sudanese medicinal plant extracts on ...

<https://www.researchgate.net/publication/12271550...>

S. aromaticum fruit extract has been reported to have potent antiviral activity **against hepatitis C virus (HCV)**, with greater than 90% inhibition of HCV **protease** activity at 100 µg/mL [72 ...

Cellular Antioxidant Activity (CAA) Assay for Assessing ...

<https://www.researchgate.net/publication/5941532...>

Materials and methods: **Compounds** were identified via Ultra-High-Performance Liquid Chromatography coupled with Electrospray Ionization with quadrupole Time of flight-**Mass Spectrometry**.

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Structures of **compounds** were fully confirmed by Fourier transform infrared spectroscopy (FT-IR). ¹H

See results for

Hepatitis C virus (Rna Viru)

The hepatitis C virus is a small, enveloped, positive-sense single-stranded RNA virus of the family Flaviviridae. The h...

