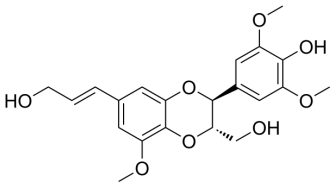
Nitidanin

Cat. No.:	HY-120104
CAS No.:	171674-89-8
Molecular Formula:	$C_{21}H_{24}O_8$
Molecular Weight:	404.41
Target:	Parasite; HCV
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Nitidanin ((±)-Nitidanin) is an antimalarial and antiviral compound that can be isolated from the wood of Xanthoxylum nitidun D. C. Nitidanin is shows IC_{50} values of 21.2 and 18.4 μM for D6 and W2 clones of Plasmodium falciparum, respectively. Nitidanin can be used for the research of malaria and virus infection[1][2].
IC_{50} & Target	Plasmodium
In Vitro	Nitidanin shows inhibitory effects to D6 and W2 clones of Plasmodium falciparum with IC_{50} values of 21.2 and 18.4 μM, respectively[1]. Nitidanin shows noncytotoxic effects to human oral epidermoid carcinoma (KB) cells with an EC_{50} value ⊠99 μM[1]. Nitidanin shows low cytotoxic effect to human hepatoma Huh7.5.1 cells with an CC_{50} value of 464.4 μM[2]. Nitidanin (0-250 μM; 5 hours) shows anti-HCV activity with an IC_{50} value of 200 μM[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Ma C, et al. Antimalarial compounds from Grewia bilamellata. J Nat Prod. 2006 Mar;69(3):346-50.

[2]. Pilkington LI, et al. 1,4-Benzodioxane Lignans: An Efficient, Asymmetric Synthesis of Flavonolignans and Study of Neolignan Cytotoxicity and Antiviral Profiles. J Nat Prod. 2018 Dec 28;81(12):2630-2637.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA