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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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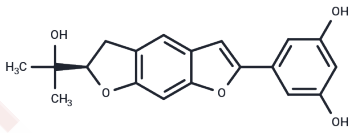
Data Sheet (Cat.No.TN1951)

TargetMol

Moracin O

Chemical Properties



CAS No. : 123702-97-6

Formula: C19H18O5

Molecular Weight: 326.34

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Moracin O shows significant neuroprotective, and analgesic activities, it also has a strong protective influence against doxorubicin-induced cardiomyopathy in H9c2 cells with the EC50 value of 4.5 ± 1.3 μM. Moracin O exhibits potent in vitro inhibitory activity against hypoxia-inducible factor (HIF-1), which is a key mediator during adaptation of cancer cells to tumour hypoxia.
Targets(IC50)	HIF
In vitro	A flavanone C-glycoside, steppogenin-5'-C-β-D-glucopyranoside, six prenylated 2-arylbenzofuran derivatives, Moracin O-3'-O-β-D-glucopyranoside, Moracin O-3'-O-β-D-xylopyranoside, moracin P-2'-O-β-D-glucopyranoside, moracin P-3'-O-β-D-glucopyranoside, moracin P-3'-O-α±-L-arabinopyranoside and moracin P-3'-O-[β-D-glucopyranosyl-(1 ?? 2)]-α±-L-arabinopyranoside, two phenolic acids, 2,4-dihydroxy-5-(4-hydroxybenzyl) benzoic acid and 2,4-dihydroxy-5-(3,4-dihydroxybenzyl) benzoic acid, as well as three known compounds, moracinoside C, Moracin O, and moracin P were isolated from the root bark of Morus alba L. Their structures were ascertained on the basis of spectroscopic evidence. The protective effects of the compounds against doxorubicin-induced cardiomyopathy in H9c2 cells was investigated in vitro[1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0643 mL	15.3214 mL	30.6429 mL
5 mM	0.6129 mL	3.0643 mL	6.1286 mL
10 mM	0.3064 mL	1.5321 mL	3.0643 mL
50 mM	0.0613 mL	0.3064 mL	0.6129 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Phenolic constituents from the root bark of Morus alba L. and their cardioprotective activity in vitro. Phytochemistry. 2017 Mar;135:128-134.

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