

## Data Sheet (Cat.No.TN1951)

Moracin O

### Chemical Properties

CAS No.:	123702-97-6
Formula:	C <sub>19</sub> H <sub>18</sub> O <sub>5</sub>
Molecular Weight:	326.4
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

### 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 EC <sub>50</sub> 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(IC <sub>50</sub> )	HIF: None
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]

### Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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#### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.064 mL	15.319 mL	30.637 mL
5 mM	0.613 mL	3.064 mL	6.127 mL
10 mM	0.306 mL	1.532 mL	3.064 mL
50 mM	0.061 mL	0.306 mL	0.613 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

#### Reference

1. 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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