

## Moracin T

## Chemical Properties

CAS No.:	1146113-27-0
Formula:	C <sub>20</sub> H <sub>20</sub> O <sub>5</sub>
Molecular Weight:	340.4
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

## Biological Description

Description	Moracin treatment can inhibit the double 12-O-tetradecanoylphorbol 13-acetate (TPA) treatment-induced morphological changes reflecting inflammatory response, including leucocyte infiltration, hyperplasia and cell proliferation; moracin treatment furthermore can significantly suppress the elevation in 4-HNE level and elevate expression of c-fos, c-myc and cyclooxygenase-2 (COX-2) in normal epidermis induced by double application of TPA; the moracin may be protective influence in tumor promotion, utilization of Moracin may open a new avenue in the treatment of tumorigenesis.
Targets(IC <sub>50</sub> )	c-Myc: None COX: None
In vitro	Benzofuran heterocycles are fundamental structural units in a variety of biologically active natural products as well as synthetic materials. Over the time, benzofuran derivatives have attracted many researchers due to the broad scope of their biological activity, which include anticancer, antimicrobial, immunomodulatory, antioxidant and anti-inflammatory properties. Egonol, homoeconol and moracin families are biologically active natural products containing benzofuran heterocycle as basic structural units. METHODS AND RESULTS: This paper focuses on the moracin family (moracin A to Z, Moracin T). Morus, a genus of flowering plants in the family Moraceae, comprises 10-16 species of deciduous trees commonly known as mulberries. The root bark, stem bark and leaves of Morus alba, M. lhou, Mors macroua are the main sources for aryl-benzofuran derivatives including the moracins. A large volume of research has been carried out on moracins and their derivatives, which has shown the pharmacological importance of this benzofuran heterocyclic nucleus. CONCLUSIONS: In this mini-review, we attempt to highlight the importance of moracins, as they have been a major source for drug development. Herein, we also summarize the current state of the art concerning the synthesis and medicinal use of moracins A -Z.

## 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	2.938 mL	14.689 mL	29.377 mL
5 mM	0.588 mL	2.938 mL	5.875 mL
10 mM	0.294 mL	1.469 mL	2.938 mL
50 mM	0.059 mL	0.294 mL	0.588 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. Bioactive benzofuran derivatives: Moracins A-Z in medicinal chemistry. European Journal of Medicinal Chemistry, 2015, 90:379-393.

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