
Product Data Sheet

Product Name: Moracin P

Cat. No.: GC69488

Chemical Properties

Cas. No. 102841-46-3

Formula $C_{19}H_{18}O_5$ M.Wt 326.34

Solubility Storage 4°C, protect from light

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

Background

Moracin P is a 2-arylbenzofuran isolated from the *Mori Cortex Radicis*. Moracin P exhibits potent in vitro inhibitory activity against **poxia-inducible factor (HIF-1)**. Moracin P reduces oxygen-glucose deprivation (OGD)-induced **reactive oxygen species (ROS)** production. Moracin P has neuroprotective and anti-inflammatory effects^{[1][2][3]}.

Moracin P enhances cell viability in dose-dependent manner against oxygen-glucose deprivation (OGD)-induced cell death in neuroblastoma SH-SY5Y cells with an EC₅₀ value of 10.4 μM. Moracin P reduces ROS production in OGD-induced cell death (IC₅₀ values of 1.9 μM). Consequently, reactive oxygen species (ROS) are overexpressed in OGD-induced cells and Moracin P reduces ROS induced by OGD in dose-dependent manner^[1].

[1]. Hak Ju Lee, et al. Inhibitory effect of 2-arylbenzofurans from the *Mori Cortex Radicis* (Moraceae) on oxygen glucose deprivation (OGD)-induced cell death of SH-SY5Y cells. *Arch Pharm Res.* 2011 Aug;34(8):1373-80.

[2]. Yan Xia, et al. HIF-1α inhibitors: synthesis and biological evaluation of novel moracin O and P analogues. *Eur J Med Chem.* 2011 Jun;46(6):2386-96.

[3]. Besse Hardianti, et al. Anti-inflammatory compounds moracin O and P from *Morus*

Caution: Product has not been fully validated for medical applications. For research use only.

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alba Linn. (Sohakuhi) target the NF κ B pathway. Mol Med Rep. 2020 Dec;22(6):5385-5391.

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