



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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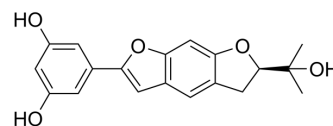
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## Moracin O

|                    |                                                                                                |
|--------------------|------------------------------------------------------------------------------------------------|
| Cat. No.:          | HY-N3244                                                                                       |
| CAS No.:           | 123702-97-6                                                                                    |
| Molecular Formula: | C <sub>19</sub> H <sub>18</sub> O <sub>5</sub>                                                 |
| Molecular Weight:  | 326.34                                                                                         |
| Target:            | HIF/HIF Prolyl-Hydroxylase; Reactive Oxygen Species                                            |
| Pathway:           | Metabolic Enzyme/Protease; Immunology/Inflammation; NF-κB                                      |
| Storage:           | 4°C, protect from light<br>* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light) |



### SOLVENT & SOLUBILITY

|                                                                               |                                                                                                                               |                                                       |      |           |            |            |
|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|------|-----------|------------|------------|
| In Vitro                                                                      | DMSO : 100 mg/mL (306.43 mM; ultrasonic and warming and heat to 60°C)                                                         |                                                       |      |           |            |            |
|                                                                               | Preparing Stock Solutions                                                                                                     | <div><div>Solvent</div><div>Concentration</div></div> | Mass | 1 mg      | 5 mg       | 10 mg      |
|                                                                               |                                                                                                                               | 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  |
| Please refer to the solubility information to select the appropriate solvent. |                                                                                                                               |                                                       |      |           |            |            |
| In Vivo                                                                       | 1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)<br>Solubility: ≥ 2.5 mg/mL (7.66 mM); Clear solution |                                                       |      |           |            |            |
|                                                                               | 2. Add each solvent one by one: 10% DMSO >> 90% corn oil<br>Solubility: ≥ 2.5 mg/mL (7.66 mM); Clear solution                 |                                                       |      |           |            |            |

### BIOLOGICAL ACTIVITY

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description | Moracin O is a 2-arylbenzofuran isolated from the Morus alba Linn. . Moracin O exhibits potent in vitro inhibitory activity against hypoxia-inducible factor (HIF-1). Moracin O reduces oxygen-glucose deprivation (OGD)-induced reactive oxygen species (ROS) production. Moracin O has neuroprotective and anti-inflammatory effects <sup>[1][2][3]</sup> .                                                                                                                                          |
| In Vitro    | Moracin O enhances cell viability in dose-dependent manner against oxygen-glucose deprivation (OGD)-induced cell death in neuroblastoma SH-SY5Y cells with an EC <sub>50</sub> value of 12.6 μM. Moracin O reduces ROS production in OGD-induced cell death (IC <sub>50</sub> value of 0.3 μM). Moracin O protects neuronal cell death against the oxidative stress induced by OGD <sup>[1]</sup> .<br>MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

### REFERENCES

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- [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-1 $\alpha$  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 alba Linn. (Sohakuhi) target the NF $\kappa$ B pathway. Mol Med Rep. 2020 Dec;22(6):5385-5391.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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