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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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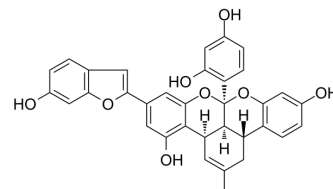
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Mulberrofurin G

Cat. No.:	HY-N3239
CAS No.:	87085-00-5
Molecular Formula:	C ₃₄ H ₂₆ O ₈
Molecular Weight:	562.57
Target:	NADPH Oxidase; HBV
Pathway:	Metabolic Enzyme/Protease; Anti-infection
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 50 mg/mL (88.88 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		1.7776 mL	8.8878 mL	17.7756 mL
		5 mM		0.3555 mL	1.7776 mL	3.5551 mL
		10 mM		0.1778 mL	0.8888 mL	1.7776 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1.25 mg/mL (2.22 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1.25 mg/mL (2.22 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil					
	Solubility: ≥ 1.25 mg/mL (2.22 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Mulberrofurin G protects ischemic injury-induced cell death via inhibition of NOX4-mediated ROS generation and ER stress [1]. Mulberrofurin G shows moderate inhibiting activity of hepatitis B virus (HBV) DNA replication with IC ₅₀ of 3.99 μM [2].
IC ₅₀ & Target	NOX4

REFERENCES

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- [1]. Hong S, Kwon J, Kim DW, Lee HJ, Lee D, Mar W. Mulberrofuran G Protects Ischemic Injury-induced Cell Death via Inhibition of NOX4-mediated ROS Generation and ER Stress. *Phytother Res.* 2017;31(2):321-329.
- [2]. Geng CA, Ma YB, Zhang XM, et al. Mulberrofuran G and isomulberrofuran G from *Morus alba* L.: anti-hepatitis B virus activity and mass spectrometric fragmentation. *J Agric Food Chem.* 2012;60(33):8197-8202.
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Caution: Product has not been fully validated for medical applications. For research use only.

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