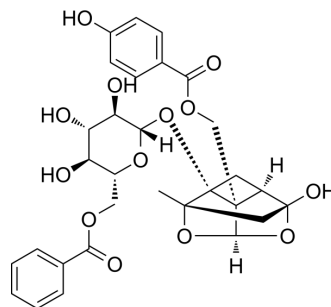


Benzoyloxypaeoniflorin

Cat. No.:	HY-N2101
CAS No.:	72896-40-3
Molecular Formula:	C ₃₀ H ₃₂ O ₁₃
Molecular Weight:	600.57
Target:	Tyrosinase; NF-κB
Pathway:	Metabolic Enzyme/Protease; NF-κB
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 : ≥ 100 mg/mL (166.51 mM)
* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.6651 mL	8.3254 mL	16.6508 mL
	5 mM	0.3330 mL	1.6651 mL	3.3302 mL
	10 mM	0.1665 mL	0.8325 mL	1.6651 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (4.16 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (4.16 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (4.16 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Benzoyloxypaeoniflorin, isolated from the root of *Paeonia suffruticosa*, is a tyrosinase inhibitor against mushroom tyrosinase with IC₅₀ of 0.453 mM. Benzoyloxypaeoniflorin is NF-κB Inhibitor and contributes to improving blood circulation through its inhibitory effect on both platelet aggregation and blood coagulation^{[1][2][3]}.

IC₅₀ & Target

IC₅₀: 0.453 mM (Mushroom tyrosinase)^[1]
NF-κB^[2]

REFERENCES

- [1]. Ding HY, et al. Tyrosinase inhibitors isolated from the roots of *Paeonia suffruticosa*. *J Cosmet Sci*. 2009 May-Jun;60(3):347-52.
- [2]. Lu Y, et al. The Screening Research of NF- κ B Inhibitors from Moutan Cortex Based on Bioactivity-Integrated UPLC-Q/TOF-MS. *Evid Based Complement Alternat Med*. 2019 Mar 3;2019:6150357.
- [3]. Koo YK, et al. Platelet anti-aggregatory and blood anti-coagulant effects of compounds isolated from *Paeonia lactiflora* and *Paeonia suffruticosa*. *Pharmazie*. 2010 Aug;65(8):624-8.
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Caution: Product has not been fully validated for medical applications. For research use only.

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