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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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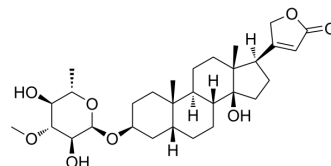
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Neriifolin

Cat. No.:	HY-N8441
CAS No.:	466-07-9
Molecular Formula:	C ₃₀ H ₄₆ O ₈
Molecular Weight:	534.68
Target:	Na ⁺ /K ⁺ ATPase; Apoptosis; Beclin1; Atg8/LC3
Pathway:	Membrane Transporter/Ion Channel; Apoptosis; Autophagy
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (187.03 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM	1.8703 mL	9.3514 mL	18.7028 mL	
		5 mM	0.3741 mL	1.8703 mL	3.7406 mL	
		10 mM	0.1870 mL	0.9351 mL	1.8703 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: ≥ 2.5 mg/mL (4.68 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (4.68 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	Neriifolin, a CNS-penetrating cardiac glycoside, is an inhibitor of the Na ⁺ , K ⁺ -ATPase. Neriifolin can target beclin 1, inhibits the formation of LC3-associated phagosomes and ameliorates experimental autoimmune encephalomyelitis (EAE) development. Neriifolin induces cell cycle arrest and apoptosis in human hepatocellular carcinoma HepG2 cells ^{[1][2]} .
In Vitro	Neriifolin (0.1 μg/mL; 48 hours) induces apoptosis in HepG2 cells. Neriifolin (0-8 μg/mL; 72 hours) reduces viability of HepG2 cells. Neriifolin also induces S and G2/M phase arrests of the cell cycle and stimulates apoptosis of HepG2 cells. Stimulation of HepG2 cells with Neriifolin induced activation of caspase-3, -8, and -9, and up-regulated expression of Fas and FasL proteins ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Keller CW, et al. ATG-dependent phagocytosis in dendritic cells drives myelin-specific CD4+ T cell pathogenicity during CNS inflammation. Proc Natl Acad Sci U S A. 2017;114(52):E11228-E11237.
- [2]. Zhao Q, et al. Neriifolin from seeds of *Cerbera manghas* L. induces cell cycle arrest and apoptosis in human hepatocellular carcinoma HepG2 cells. Fitoterapia. 2011;82(5):735-741.
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Caution: Product has not been fully validated for medical applications. For research use only.

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