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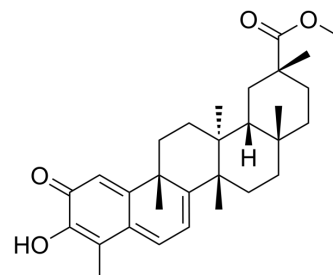
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Pristimerin

Cat. No.:	HY-N1937
CAS No.:	1258-84-0
Molecular Formula:	C ₃₀ H ₄₀ O ₄
Molecular Weight:	464.64
Target:	Bacterial
Pathway:	Anti-infection
Storage:	<div> <div>Powder</div> <div>-20°C</div> <div>3 years</div> </div> <div> <div></div> <div>4°C</div> <div>2 years</div> </div> <div> <div>In solvent</div> <div>-80°C</div> <div>2 years</div> </div> <div> <div></div> <div>-20°C</div> <div>1 year</div> </div>



SOLVENT & SOLUBILITY

In Vitro	DMF : 25 mg/mL (53.81 mM; Need ultrasonic)				
	DMSO : 20 mg/mL (43.04 mM; Need ultrasonic)				
	Preparing Stock Solutions	<div><div>Solvent</div><div>Concentration</div></div>	Mass		
			1 mg	5 mg	10 mg
		1 mM	2.1522 mL	10.7610 mL	21.5220 mL
		5 mM	0.4304 mL	2.1522 mL	4.3044 mL
10 mM	0.2152 mL	1.0761 mL	2.1522 mL		
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil				
	Solubility: ≥ 2 mg/mL (4.30 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Pristimerin is a potent and reversible monoacylglycerol lipase (MGL) inhibitor with an IC ₅₀ of 93 nM.
IC ₅₀ & Target	IC ₅₀ : 93 nM (MGL) ^[1]
In Vitro	<p>Pristimerin inhibits the activity of purified MGL with an IC₅₀ of 93±8 nM and that of non-purified MGL (cell lysates of MGL-transfected HeLa cells) with an IC₅₀ of 398±68 nM. Pristimerin inhibits MGL through a mechanism that is rapid, reversible and non-competitive. The binding of pristimerin to MGL might be strengthened by formation of a polar interaction with a regulatory cysteine, possibly Cys²⁰⁸^[1]. Pristimerin inhibits HFLS-RA and HUVEC cell viability in a dose- and time-dependent manner. Pristimerin decreases VEGF-induced autophosphorylation of VEGFR2 and attenuates the activation of the VEGF-induced VEGFR2-mediated signaling pathway^[2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

In Vivo

Pristimerin inhibits inflammation and tumor angiogenesis. Pristimerin significantly reduces vessel density in synovial membrane tissues of inflamed joints and reduces the expression of pro-angiogenic factors in sera, including TNF- α , Ang-1, and MMP-9^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

PROTOCOL

Cell Assay^[2]

HFLS-RA (5×10^3 cells/mL) or HUVECs (1×10^4 cells/well) are seeded in 96-well plates and cultured in normal growth medium for 24 h. The cells are then incubated with different Pristimerin concentrations (0, 0.125, 0.25, 0.5 μ M). The effects of Pristimerin on HUVECs viability are determined under VEGF-induced conditions. Cell viability is quantified by MTT assay. At 4 h before the end of the culture period, 30 μ L of MTT solution (5.0 mg/mL) is added to each well. Cells without Pristimerin or VEGF served as a vehicle control^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Administration

Rat: Pristimerin is dissolved in DMSO (0.4%) and intraperitoneally injected daily into Male Sprague-Dawley rats in the experimental group (low-dose group, 0.40 mg/kg of body weight; high-dose group, 0.80 mg/kg of body weight) from day 11 to day 24 of immunization. The model group received vehicle (DMSO, 0.4%), and the normal control group received normal saline (NS). Methotrexate (positive control) is suspended in NS and orally administered in the autoimmune phase at an interval of 5 days^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Phytomedicine. 2021 Jan;80:153399.
- Int Immunopharmacol. 2021 Mar 23;94:107491.
- Drug Des Dev Ther. 2020 Oct 9;14:4189-4203.

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REFERENCES

[1]. King AR, et al. Discovery of potent and reversible monoacylglycerol lipase inhibitors. Chem Biol. 2009 Oct 30;16(10):1045-52.

[2]. Deng Q, et al. Pristimerin inhibits angiogenesis in adjuvant-induced arthritic rats by suppressing VEGFR2 signaling pathways. Int Immunopharmacol. 2015 Dec;29(2):302-13.

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

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