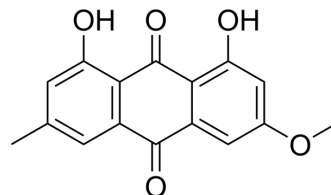


Physcion

Cat. No.:	HY-N0108		
CAS No.:	521-61-9		
Molecular Formula:	C ₁₆ H ₁₂ O ₅		
Molecular Weight:	284.26		
Target:	Bacterial		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 3.33 mg/mL (11.71 mM; ultrasonic and warming and adjust pH to 9 with NaOH and heat to 60°C)
 THF : 2.5 mg/mL (8.79 mM; ultrasonic and warming and heat to 60°C)
 DMF : 1 mg/mL (3.52 mM; Need ultrasonic)
 Ethanol : < 1 mg/mL (insoluble)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.5179 mL	17.5895 mL	35.1791 mL
	5 mM	0.7036 mL	3.5179 mL	7.0358 mL
	10 mM	0.3518 mL	1.7590 mL	3.5179 mL

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

BIOLOGICAL ACTIVITY

Description

Physcion (Parietin) is an anthraquinone isolated from traditional Chinese medicine Radix et Rhizoma Rhei, acts as an inhibitor of 6-phosphogluconate dehydrogenase, with an IC₅₀ and a K_d of 38.5 μM and 26.0 μM, respectively^{[1][2]}. Physcion (Parietin) exhibits laxative, hepatoprotective, anti-inflammatory, anti-microbial, anti-proliferative and anti-tumor effects^[2].

IC₅₀ & Target

IC₅₀: 38.5 μM (6-phosphogluconate dehydrogenase)^[1]
 K_d: 26.0 μM (6-phosphogluconate dehydrogenase)^[1]

CUSTOMER VALIDATION

- Drug Des Dev Ther. 2021 Jan 25;15:277-287.

- World J Gastrointest Oncol. 2023 Aug 15; 15(8): 1400-1411.
- Curr Eye Res. 2022 Sep 23;1-25.
- Authorea. September 07, 2022.
- Biomed Res Int. 2021 Sep 9;2021:9066938.

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REFERENCES

[1]. Lin R, et al. 6-Phosphogluconate dehydrogenase links oxidative PPP, lipogenesis and tumour growth by inhibiting LKB1-AMPK signalling. Nat Cell Biol. 2015 Nov;17(11):1484-96.

[2]. Pang MJ, et al. Physcion, a naturally occurring anthraquinone derivative, induces apoptosis and autophagy in human nasopharyngeal carcinoma. Acta Pharmacol Sin. 2016 Dec;37(12):1623-1640.

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

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