## Silydianin

Cat. No.:	HY-N0646		
CAS No.:	29782-68-1		
Molecular Formula:	C <sub>25</sub> H <sub>22</sub> O <sub>10</sub>		
Molecular Weight:	482.44		
Target:	Phosphatase; Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
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 : 125 mg/mL (259.10 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg		
		1 mM	2.0728 mL	10.3640 mL	20.7280 mL		
		5 mM	0.4146 mL	2.0728 mL	4.1456 mL		
		10 mM	0.2073 mL	1.0364 mL	2.0728 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: ≥ 2.08 mg/mL (4.31 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (4.31 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.31 mM); Clear solution						

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#### REFERENCES

# Product Data Sheet

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[1]. Vostálová J, et al. Skin Protective Activity of Silymarin and its Flavonolignans. Molecules. 2019 Mar 14;24(6).

[2]. Qin N, et al. Identification of flavonolignans from Silybum marianum seeds as allosteric protein tyrosine phosphatase 1B inhibitors. J Enzyme Inhib Med Chem. 2018 Dec;33(1):1283-1291.

[3]. Zielińska-Przyjemska M, et al. An in vitro study of the protective effect of the flavonoid silydianin against reactive oxygen species. Phytother Res. 2006 Feb;20(2):115-9.

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

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