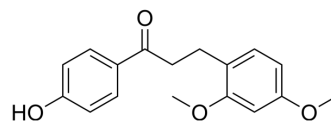


## Loureirin A

<b>Cat. No.:</b>	HY-N1505		
<b>CAS No.:</b>	119425-89-7		
<b>Molecular Formula:</b>	C <sub>17</sub> H <sub>18</sub> O <sub>4</sub>		
<b>Molecular Weight:</b>	286.32		
<b>Target:</b>	Akt		
<b>Pathway:</b>	PI3K/Akt/mTOR		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 86.6 mg/mL (302.46 mM)  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent		1 mg	5 mg	10 mg
	Concentration	Mass			
	1 mM		3.4926 mL	17.4630 mL	34.9260 mL
	5 mM		0.6985 mL	3.4926 mL	6.9852 mL
	10 mM		0.3493 mL	1.7463 mL	3.4926 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: ≥ 2.08 mg/mL (7.26 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.08 mg/mL (7.26 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.08 mg/mL (7.26 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Loureirin A is a flavonoid extracted from Dragon's Blood, can inhibit Akt phosphorylation, and has antiplatelet activity.

#### IC<sub>50</sub> & Target

Akt<sup>[1]</sup>

#### In Vitro

Loureirin A (50 μM, 100 μM) inhibits collagen-induced platelet ATP secretion and thrombin-stimulated P-selectin expression in a dose-dependent manner. Loureirin A also significantly impairs platelet spreading on immobilized fibrinogen. Loureirin A

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almost completely eliminates collagen-induced Akt phosphorylation at Ser473 at the dose of 100  $\mu$ M, and has an additive inhibitory effect with the phosphoinositide 3-kinase (PI3K) inhibitor Ly294002 on collage-induced Akt phosphorylation in platelets at 50  $\mu$ M<sup>[1]</sup>.

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

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## CUSTOMER VALIDATION

- Biomed Pharmacother. 2020 Sep;129:110369.
- Int Immunopharmacol. 2020 Jan;78:105953.
- Eur J Immunol. 2020 Jun;50(6):795-808.
- Orthop Surg. 2023 Apr 14.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

[1]. Hao HZ, et al. Antiplatelet activity of loureirin A by attenuating Akt phosphorylation: In vitro studies. Eur J Pharmacol. 2015 Jan 5;746:63-9.

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

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