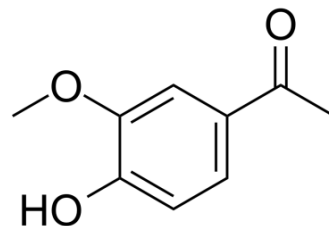


## Apocynin

<b>Cat. No.:</b>	HY-N0088												
<b>CAS No.:</b>	498-02-2												
<b>Molecular Formula:</b>	C <sub>9</sub> H <sub>10</sub> O <sub>3</sub>												
<b>Molecular Weight:</b>	166.17												
<b>Target:</b>	Autophagy; Apoptosis												
<b>Pathway:</b>	Autophagy; Apoptosis												
<b>Storage:</b>	<table border="0"> <tr> <td>Powder</td> <td>-20°C</td> <td>3 years</td> </tr> <tr> <td></td> <td>4°C</td> <td>2 years</td> </tr> <tr> <td>In solvent</td> <td>-80°C</td> <td>6 months</td> </tr> <tr> <td></td> <td>-20°C</td> <td>1 month</td> </tr> </table>	Powder	-20°C	3 years		4°C	2 years	In solvent	-80°C	6 months		-20°C	1 month
Powder	-20°C	3 years											
	4°C	2 years											
In solvent	-80°C	6 months											
	-20°C	1 month											



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 100 mg/mL (601.79 mM)  
H<sub>2</sub>O : < 0.1 mg/mL (insoluble)  
\* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	6.0179 mL	30.0897 mL	60.1793 mL
	5 mM	1.2036 mL	6.0179 mL	12.0359 mL
	10 mM	0.6018 mL	3.0090 mL	6.0179 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: ≥ 2.5 mg/mL (15.04 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (15.04 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (15.04 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Apocynin is a selective NADPH-oxidase inhibitor with an IC<sub>50</sub> of 10 μM.

### CUSTOMER VALIDATION

- Redox Biol. 2018 May;15:418-434.
- Free Radic Biol Med. 2021 Mar 16;S0891-5849(21)00113-1.
- Biomed Pharmacother. 2020 Jan;121:109615.
- Sci Rep. 2017 Aug 29;7(1):9873.
- Atherosclerosis. 2021 Apr 14.

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

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## REFERENCES

- [1]. Stolk J, et al. Am J Respir Cell Mol Biol, 1994, 11(1), 95-102.
- [2]. Stefanska J, et al. Mediators Inflamm, 2008, 106507.
- [3]. Impellizzeri D et al. Effect of apocynin, a NADPH oxidase inhibitor, on acute lung inflammation. Biochem Pharmacol. 2011 Mar 1;81(5):636-48.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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