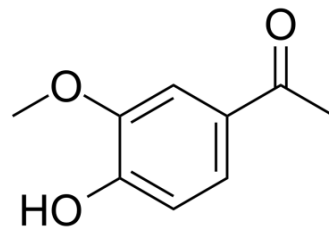


Apocynin

| | | | |
|--------------------|---|-------|----------|
| Cat. No.: | HY-N0088 | | |
| CAS No.: | 498-02-2 | | |
| Molecular Formula: | C ₉ H ₁₀ O ₃ | | |
| Molecular Weight: | 166.17 | | |
| Target: | Autophagy; Apoptosis | | |
| Pathway: | Autophagy; Apoptosis | | |
| 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 : ≥ 100 mg/mL (601.79 mM)

H₂O : < 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 **IC₅₀** of 10 μM.

CUSTOMER VALIDATION

-
- *Redox Biol.* 2018 May;15:418-434.
 - *Biomed Pharmacother.* 2019 Nov 7;121:109615.
 - *Sci Rep.* 2017 Aug 29;7(1):9873.
 - *Eur J Pharmacol.* 2020 Mar 1:173058.

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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.

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

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