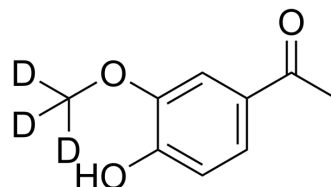


## Apocynin-d<sub>3</sub>

Cat. No.:	HY-N0088S
CAS No.:	80404-23-5
Molecular Formula:	C <sub>9</sub> H <sub>7</sub> D <sub>3</sub> O <sub>3</sub>
Molecular Weight:	169.19
Target:	Apoptosis; Autophagy
Pathway:	Apoptosis; Autophagy
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	Apocynin-d <sub>3</sub> is the deuterium labeled Apocynin[1]. Apocynin is a selective NADPH-oxidase inhibitor with an IC <sub>50</sub> of 10 μM[2][3][4].
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Stolk J, et al. *Am J Respir Cell Mol Biol*, 1994, 11(1), 95-102.
- [3]. Stefanska J, et al. *Mediators Inflamm*, 2008, 106507.
- [4]. Impellizzeri D et al. Effect of apocynin, a NADPH oxidase inhibitor, on acute lung inflammation. *Biochem Pharmacol*. 2011 Mar 181(5):636-48.

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

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