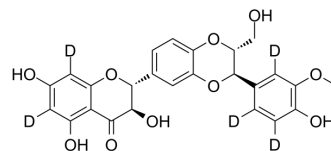


## Silibinin-d5

Cat. No.:	HY-13748S1
CAS No.:	1329802-47-2
Molecular Formula:	C <sub>25</sub> H <sub>17</sub> D <sub>5</sub> O <sub>10</sub>
Molecular Weight:	487.47
Target:	Autophagy; Reactive Oxygen Species
Pathway:	Autophagy; Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Silibinin-d5 is the deuterium labeled Silibinin. Silibinin (Silibinin A), an effective anti-cancer and chemopreventive agent, has been shown to exert multiple effects on cancer cells, including inhibition of both cell proliferation and migration.
<b>In Vitro</b>	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]. Woo SM, et al. Silibinin induces apoptosis of HT29 colon carcinoma cells through early growth response-1 (EGR-1)-mediated non-steroidal anti-inflammatory drug-activated gene-1 (NAG-1) up-regulation. *Chem Biol Interact*. 2014 Jan 16;211C:36-43.; Kim TH, et al

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

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