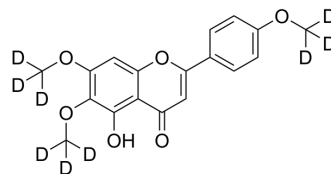


Salvigenin-d₉

Cat. No.:	HY-N1318S
Molecular Formula:	C ₁₈ H ₇ D ₉ O ₆
Molecular Weight:	337.37
Target:	Autophagy
Pathway:	Autophagy
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Salvigenin-d ₉ is the deuterium labeled Salvigenin. Salvigenin is a natural polyphenolic compound, with neuroprotective effect. Salvigenin has antitumor cytotoxic and immunomodulatory properties[1][2].
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 ^[1] . 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;53(2):211-216.
- [2]. Rafatian G, et al. Increase of autophagy and attenuation of apoptosis by Salvigenin promote survival of SH-SY5Y cells following treatment with H₂O₂. *Mol Cell Biochem*. 2012 Dec;371(1-2):9-22.
- [3]. Noori S, et al. Antitumor and immunomodulatory effects of salvigenin on tumor bearing mice. *Cell Immunol*. 2013 Nov-Dec;286(1-2):16-21.

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

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