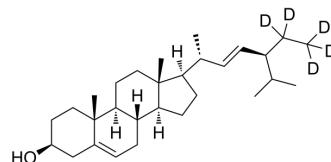


## Stigmasterol-d<sub>5</sub>-1

Cat. No.:	HY-N0131S1
CAS No.:	2260669-29-0
Molecular Formula:	C <sub>29</sub> H <sub>43</sub> D <sub>5</sub> O
Molecular Weight:	417.72
Target:	MMP; Endogenous Metabolite; Isotope-Labeled Compounds
Pathway:	Metabolic Enzyme/Protease; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	Stigmasterol-d <sub>5</sub> -1 is deuterium labeled Stigmasterol. Stigmasterol is a plant sterol which has been focused on the cholesterol-lowering activity and is valued as an anti-stiffness factor in the therapy of rheumatic diseases[1].
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[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. Gabay O, et al. Stigmasterol: a phytosterol with potential anti-osteoarthritic properties. *Osteoarthritis Cartilage*. 2010 Jan;18(1):106-16.
- [2]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019;53(2):211-223.

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

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