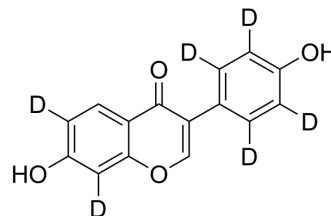


Daidzein-d₆

Cat. No.:	HY-N0019S1
CAS No.:	291759-05-2
Molecular Formula:	C ₁₅ H ₄ D ₆ O ₄
Molecular Weight:	260.27
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Daidzein-d ₆ is a deuterium labeled Daidzein (HY-N0019). Daidzein is a soy isoflavone, which acts as a PPAR activator.
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]. Kim E, et al. Daidzein Augments Cholesterol Homeostasis via ApoE to Promote Functional Recovery in Chronic Stroke. *J Neurosci*. 2015 Nov 11;35(45):15113-26.
- [2]. Sakamoto Y1, et al. The Dietary Isoflavone Daidzein Reduces Expression of Pro-Inflammatory Genes through PPARα/γ and JNK Pathways in Adipocyte and Macrophage Co-Cultures. *PLoS One*. 2016 Feb 22;11(2):e0149676.
- [3]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-246.

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

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