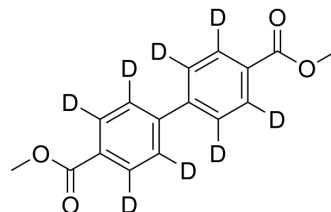


Dimethyl biphenyl-4,4'-dicarboxylate-d₈

Cat. No.:	HY-128854S
CAS No.:	1219803-50-5
Molecular Formula:	C ₁₆ H ₆ D ₈ O ₄
Molecular Weight:	278.33
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Dimethyl biphenyl-4,4'-dicarboxylate-d ₈ is the deuterium labeled Dimethyl biphenyl-4,4'-dicarboxylate[1]. Dimethyl biphenyl-4,4'-dicarboxylate (Biphenyl dimethyl dicarboxylate) is a hepatoprotectant obtained from Schizandra fructus and may induce a signal transduction similar to that associated with IFN[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 Feb;53(2):211-216.
- [2]. Joo SS, et al. Interferon signal transduction of biphenyl dimethyl dicarboxylate/amantadine and anti-HBV activity in HepG2 2.2.15. *Arch Pharm Res*. 2006 May;29(5):405-11.

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

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