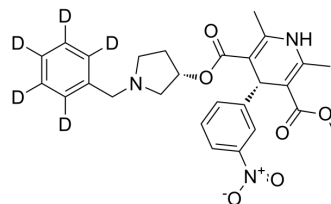


## Barnidipine-d<sub>5</sub>

Cat. No.:	HY-107322AS1
CAS No.:	2771469-19-1
Molecular Formula:	C <sub>27</sub> H <sub>24</sub> D <sub>5</sub> N <sub>3</sub> O <sub>6</sub>
Molecular Weight:	496.57
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Barnidipine-d <sub>5</sub> is the deuterium-labeled Barnidipine (HY-107322A). Barnidipine-d <sub>5</sub> (Mepirodipine) is an L-type calcium antagonist (CaA) with high affinity for [ <sup>3</sup> H] initrendipine binding sites (K <sub>i</sub> =0.21 nmol/l), has selective action against CaA receptors <sup>[1]</sup> . Barnidipine-d <sub>5</sub> (Mepirodipine) is an antihypertensive agent and acts by the reduction of peripheral vascular resistance secondary to its vasodilatory action <sup>[2]</sup> .
<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.

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

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