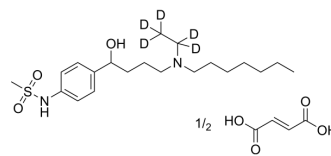


## Ibutilide-d<sub>5</sub> fumarate

<b>Cat. No.:</b>	HY-B0387S
<b>Molecular Formula:</b>	C <sub>24</sub> H <sub>35</sub> D <sub>5</sub> N <sub>2</sub> O <sub>7</sub> S
<b>Molecular Weight:</b>	447.65
<b>Target:</b>	Calcium Channel; Isotope-Labeled Compounds
<b>Pathway:</b>	Membrane Transporter/Ion Channel; Neuronal Signaling; Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Ibutilide-d <sub>5</sub> (fumarate) is deuterium labeled Ibutilide (fumarate).
<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.

### REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216.
- [2]. Foster, R.H., M.I. Wilde, and A. Markham, Ibutilide. A review of its pharmacological properties and clinical potential in the acute management of atrial flutter and fibrillation. *Drugs*, 1997. 54(2): p. 312-30.
- [3]. Howard, P.A., Ibutilide: an antiarrhythmic agent for the treatment of atrial fibrillation or flutter. *Ann Pharmacother*, 1999. 33(1): p. 38-47.

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

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