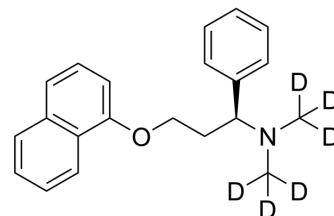


Dapoxetine-d6

Cat. No.:	HY-B0304S
CAS No.:	1132642-58-0
Molecular Formula:	C ₂₁ H ₁₇ D ₆ NO
Molecular Weight:	311.45
Target:	Serotonin Transporter
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Dapoxetine-d ₆ is the deuterium labeled Dapoxetine[1]. Dapoxetine (LY-210448) is an orally active and selective serotonin reuptake inhibitor (SSRI). Dapoxetine can be used for the research of premature ejaculation (PE)[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]. Muammer Kendirci, et al. Dapoxetine, a novel selective serotonin transport inhibitor for the treatment of premature ejaculation. *Ther Clin Risk Manag*. 2007 Jun;3(2):277-89.
- [3]. Rabab H Sayed, et al. Dapoxetine attenuates testosterone-induced prostatic hyperplasia in rats by the regulation of inflammatory and apoptotic proteins. *Toxicol Appl Pharmacol*. 2016 Nov 15;311:52-60.

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

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