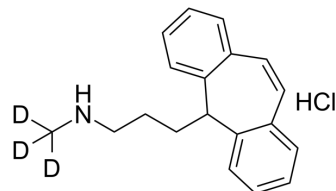


Protriptyline (N-methyl-d3) (hydrochloride)

Cat. No.:	HY-B0949S
CAS No.:	1435934-21-6
Molecular Formula:	C ₁₉ H ₁₉ D ₃ ClN
Molecular Weight:	266.4
Target:	AChE
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Protriptyline (N-Methyl-d3) hydrochloride is the deuterium labeled Protriptyline hydrochloride. Protriptyline hydrochloride is a tricyclic antidepressant (TCA), specifically a secondary amine, for the treatment of depression and ADHD. Unique among the TCAs, protriptyline tends to be energizing instead of sedating, used for narcolepsy to achieve a wakefulness-promoting effect ^[1] .
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]. Hudgel DW. Pharmacologic treatment of obstructive sleep apnea. J Lab Clin Med. 1995;126(1):13-18.
- [2]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-216.

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

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