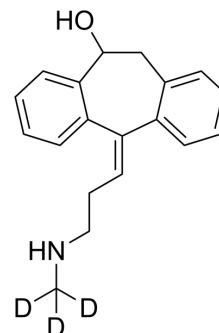


## (Z)-10-Hydroxynortriptyline-d<sub>3</sub>

<b>Cat. No.:</b>	HY-100646AS		
<b>Molecular Formula:</b>	C <sub>19</sub> H <sub>18</sub> D <sub>3</sub> NO		
<b>Molecular Weight:</b>	282.4		
<b>Target:</b>	Drug Metabolite		
<b>Pathway:</b>	Metabolic Enzyme/Protease		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### BIOLOGICAL ACTIVITY

<b>Description</b>	(Z)-10-Hydroxynortriptyline-d <sub>3</sub> is the deuterium labeled <a href="#">(Z)-10-Hydroxynortriptyline</a> (HY-100646A). (Z)-10-Hydroxynortriptyline is a metabolite of <a href="#">Nortriptyline</a> (HY-118620). Nortriptyline is a tricyclic antidepressant and the main active metabolite of Amitriptyline, and is used to relieve the symptoms of depression[1][2].
<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 Feb;53(2):211-216.
- [2]. Shimoda K, et al. The impact of CYP2C19 and CYP2D6 genotypes on metabolism of amitriptyline in Japanese psychiatric patients. *J Clin Psychopharmacol*. 2002 Aug;22(4):371-8.

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

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