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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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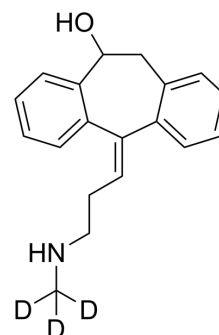
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(Z)-10-Hydroxynortriptyline-d₃

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



SOLVENT & SOLUBILITY

In Vitro

DMF : ≥ 30 mg/mL (106.23 mM)
 DMF : ≥ 30 mg/mL (106.23 mM)
 DMSO : ≥ 10 mg/mL (35.41 mM)
 DMSO : ≥ 10 mg/mL (35.41 mM)
 Ethanol : ≥ 5 mg/mL (17.71 mM)
 Ethanol : ≥ 5 mg/mL (17.71 mM)
 DMF:PBS (pH 7.2) (1:1) : ≥ 0.5 mg/mL (1.77 mM)
 * "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		3.5411 mL	17.7054 mL	35.4108 mL
	5 mM		0.7082 mL	3.5411 mL	7.0822 mL
	10 mM		0.3541 mL	1.7705 mL	3.5411 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

(Z)-10-Hydroxynortriptyline-d₃ is the deuterium labeled [\(Z\)-10-Hydroxynortriptyline](#) (HY-100646A). (Z)-10-Hydroxynortriptyline is a metabolite of [Nortriptyline](#) (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].

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

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