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**Product Data Sheet**

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Product Name: (Z)-10-Hydroxynortriptyline-d3

Cat. No.: GC67761

**Chemical Properties**

Cas. No.

Formula C<sub>19</sub>H<sub>18</sub>D<sub>3</sub>NO M.Wt 282.39

Solubility Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure [\(Z\)-10-Hydroxynortriptyline-d3](#)**Background**

(Z)-10-Hydroxynortriptyline-d3 is the deuterium labeled (Z)-10-Hydroxynortriptyline . (Z)-10-Hydroxynortriptyline is a metabolite of Nortriptyline . Nortriptyline is a tricyclic antidepressant and the main active metabolite of Amitriptyline, and is used to relieve the symptoms of depression<sup>[1][2]</sup>.

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>.

[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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