
Product Data Sheet

Product Name: 1-Hexadecanol-d4

Cat. No.: GC68495

Chemical Properties

Cas. No. 1398065-49-0

Formula $C_{16}H_{30}D_4O$

M.Wt 246.47

Solubility DMSO : 10 mg/mL (40.57 mM; ultrasonic and warming and heat to 60°C)

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 **Background**

1-Hexadecanol-d₄ is the deuterium labeled 1-Hexadecanol[1]. 1-Hexadecanol is a fatty alcohol, a lipophilic substrate[2].

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].

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019 Feb;53(2):211-216.

[2]. Nawale L, et al. Anti-proliferative effect of novel primary cetyl alcohol derived sophorolipids against human cervical cancer cells HeLa. *PLoS One.* 2017 Apr 18;12(4):e0174241.

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

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