
Product Data Sheet

Product Name: Skatole-d8

Cat. No.: GC72496

Chemical Properties

Cas. No. 697807-03-7

Formula C₉HD₈N

M.Wt 139.22

Solubility DMSO : 100 mg/mL (718.29 mM; Need ultrasonic and warming; Hygroscopic DMSO has a significant impact on the solubility of product, please use newly opened DMSO) Storage -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**

Skatole-d8 is the deuterium labeled Skatole. Skatole is produced by intestinal bacteria, regulates intestinal epithelial cellular functions through activating aryl hydrocarbon receptors and p38[1].

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].

References:

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

[2]. Kurata K, et al. Skatole regulates intestinal epithelial cellular functions through activating aryl hydrocarbon receptors and p38. *Biochem Biophys Res Commun.* 2019 Mar 19;510(4):649-655.

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

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