

Product Data Sheet

Product Name: Skatole-d8

Cat. No.: GC72496

Chemical Properties

Cas. No. 697807-03-7

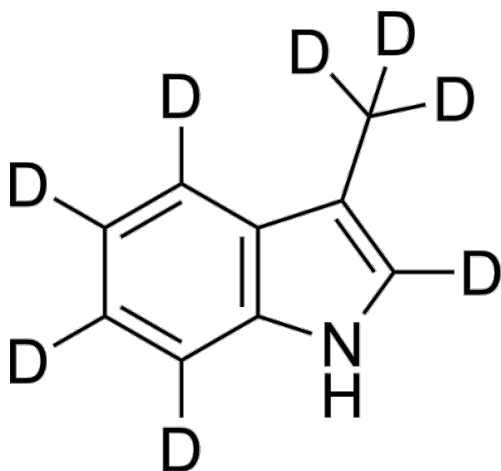
Formula $C_9H_8D_8N$ M.Wt 139.22

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)

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

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

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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.

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