

Product Data Sheet

Product Name: 1-Phenylethylamine-d₃ hydrochloride

Cat. No.: GC81817

Chemical Properties

Cas. No.

Formula C₈H₉D₃CIN M.Wt 160.66

Solubility DMSO: 100 mg/mL (622.43 mM; Need ultrasonic) 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-Phenylethylamine-d₃ hydrochloride is the deuterated-labeled 1-Phenylethylamine hydrochloride. 1-Phenylethylamine is a potential central nervous system stimulant and a related compound of β-phenylethylamine. Due to the replacement of its benzene ring with an indole group, its brain glycogenolytic activity is significantly reduced. Therefore, 1-Phenylethylamine can be used to study the impact of the chemical structure of phenylethylamine derivatives on central nervous system activity. In addition, 1-Phenylethylamine can also be used to synthesize the tyrosine kinase (tyrosine kinase) inhibitor CLM3.

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

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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.

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