
Product Data Sheet

Product Name: Trimethoprim-d9

Cat. No.: GC66422

Chemical Properties

Cas. No. 1189460-62-5

Formula $C_{14}H_9D_9N_4O_3$ M.Wt 299.37

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

Background

Trimethoprim-d9 is the deuterium labeled Trimethoprim. Trimethoprim is a bacteriostatic antibiotic and an orally active **dihydrofolate reductase** inhibitor. Trimethoprim is active against a wide range of **Gram-positive** and **Gram-negative aerobic bacteria**. Trimethoprim has the potential for urinary tract infections, Shigellosis and Pneumocystis pneumonia treatment^{[1][2][3]}.

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].

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

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