

Product Data Sheet

Product Name: Pyrazinamide-¹⁵N,₃

Cat. No.: GC81854

Chemical Properties

Cas. No. 1246817-81-1

Formula C₅H₂D₃N₂¹⁵NO

M.Wt 127.12

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

Pyrazinamide - 15 N,₃ (Pyrazinecarboxamide- 15 N,₃) is the deuterated, 15 N-labeled Pyrazinamide. Pyrazinamide (Pyrazinecarboxamide; Pyrazinoic acid amide) is a potent and orally active antitubercular antibiotic. Pyrazinamide is a proagent that is converted to the active form pyrazinoic acid (POA) by PZase/nicotinamidase encoded by the pncA gene in M. tuberculosis.

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

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

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drugs.

References:

- [1]. Y Zhang, et al. Role of acid pH and deficient efflux of pyrazinoic acid in unique susceptibility of Mycobacterium tuberculosis to pyrazinamide. J Bacteriol. 1999 Apr;181(7):2044-9.
- [2]. Ying Zhang, et al. Mechanisms of Pyrazinamide Action and Resistance. Microbiol Spectr. 2014 Aug;2(4):MGM2-0023-2013.

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