
Product Data Sheet

Product Name: Erdosteine-13C4

Cat. No.: GC63734

Chemical Properties

Cas. No.

Formula C₄ ¹³C₄H₁₁NO₄S₂

M.Wt

253.28

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

Erdosteine-13C4 (RV 144-13C4) is a ¹³C-labeled Erdosteine. Erdosteine inhibits lipopolysaccharide (LPS)-induced NF-κB activation[1][2]. Erdosteine has mucomodulatory, anti-bacterial, anti-inflammatory and anti-oxidant effects[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].

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216. [2]. Park JS, et al. Anti-inflammatory Effect of Erdosteine in Lipopolysaccharide-Stimulated RAW 264.7 Cells. *Inflammation.* 2016 Aug;39(4):1573-81.;Oktar S, et al. Beneficial effect of erdosteine on methotrexate-induced testicular toxicity in mice. *Toxicol Ind Health.* 2010 Aug;26(7):433-8.;Recipharm's proprietary molecule Erdosteine recognised as COPD treatment

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

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