

Product Data Sheet

Product Name: 4-Methylamino antipyrine-d 3 -1

Cat. No.: GC80491

Chemical Properties

Cas. No. 1246820-06-3

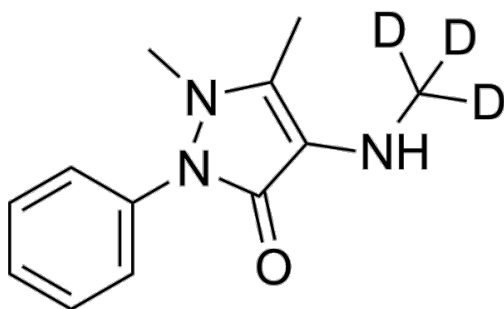
Formula $C_{12}H_{12}D_3N_3O$ M.Wt 220.29

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

4-Methylamino antipyrine-d 3 -1 is the deuterium labeled 4-Methylamino antipyrine-1. 4-Methylamino antipyrine is an active metabolite of Metamizole. Metamizole is a pyrazolone non-steroidal anti-inflammatory drug (NSAID) and inhibits COX. Metamizole is a nonopioid analgesic agent and can be used for pain and fever [1] [2] [3]. 4-Methylamino antipyrine has analgesic, antipyretic, and relatively weak antiinflammatory properties [2].

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

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

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has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs.

References:

- [1]. Burmańczuk A, et al. Pharmacokinetic investigations of the marker active metabolites 4-methylamino-antipyrine and 4-amino-antipyrine after intramuscular injection of metamizole in healthy piglets. J Vet Pharmacol Ther. 2016 Dec;39(6):616-620.
- [2]. Ariza A, et al. Pyrazolones metabolites are relevant for identifying selective anaphylaxis to metamizole. Sci Rep. 2016 Mar 31;6:23845.
- [3]. Campos C1, et al. Regulation of cyclooxygenase activity by metamizol. Eur J Pharmacol. 1999 Aug 13;378(3):339-47.

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