

Product Data Sheet

Product Name: 1-Methyl-4-nitrosopiperazine-d 11

Cat. No.: GC79986

Chemical Properties

Cas. No.

Formula $C_5D_{11}N_3O$

M.Wt 140.23

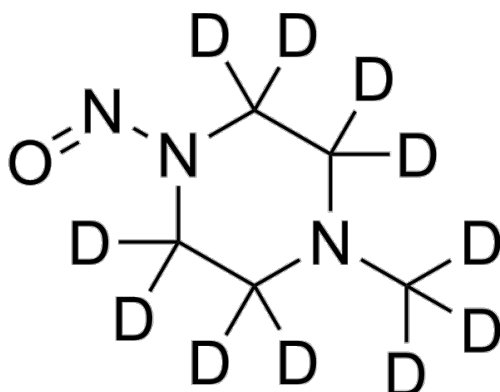
Solubility

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

1-Methyl-4-nitrosopiperazine -d 11 (MNP-d 11) is the deuterium labeled 1-Methyl-4-nitrosopiperazine. 1-Methyl-4-nitrosopiperazine (MNP; MeNP; N-Methyl-N'-nitrosopiperazine) is a potential impurity in sartans, non-steroidal anti-inflammatory drugs (NSAIDs), and thiazide diuretics

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

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[1].

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.

References:

[1]. Larimer FW, et al. Mutagenicity of N-nitrosopiperazine derivatives in *Saccharomyces cerevisiae*. *Mutat Res.* 1980 Feb;77(2):143-8.

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