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Zuschläge

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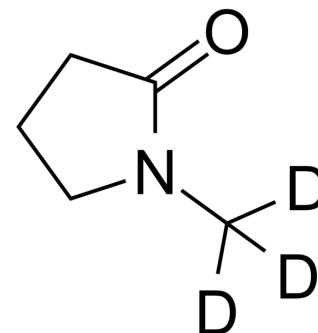
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N-Methylpyrrolidone-d₃

Cat. No.:	HY-Y1275S1
CAS No.:	933-86-8
Molecular Formula:	C ₅ H ₆ D ₃ NO
Molecular Weight:	102.15
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	N-Methylpyrrolidone-d ₃ is the deuterium labeled N-Methylpyrrolidone [1]. N-Methylpyrrolidone (1-Methyl-2-pyrrolidinone), a five-membered cyclic amide, is an organic polar solvent. N-Methylpyrrolidone is extensively used in the manufacture of adhesives, paints, fuels, and pharmaceuticals[2][3].
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 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Jing Wang, et al. Nitrate stimulation of N-Methylpyrrolidone biodegradation by *Paracoccus pantotrophus*: Metabolite mechanism and Genomic characterization. *Bioresour Technol*. 2019 Dec;294:122185.
- [3]. Claudia Julieta Solís-González, et al. Novel Metabolic Pathway for N-Methylpyrrolidone Degradation in *Alicyclophilus* sp. Strain BQ1. *Appl Environ Microbiol*. 2017 Dec 1584(1):e02136-17.

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

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