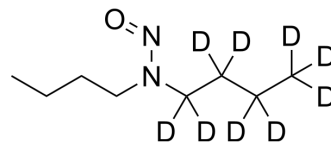


## N-Nitrosodibutylamine-d<sub>9</sub>

Cat. No.:	HY-131113S1
Molecular Formula:	C <sub>8</sub> H <sub>9</sub> D <sub>9</sub> N <sub>2</sub> O
Molecular Weight:	167.3
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	N-Nitrosodibutylamine-d <sub>9</sub> is the deuterium labeled N-Nitrosodibutylamine[1]. N-Nitrosodibutylamine (N-Nitroso-di-n-butylamine) is a nitrosamine enriched in the drinking water[2].
<b>In Vitro</b>	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 <sup>[1]</sup> . 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]. Chao Zhao, et al. Distribution of N-nitrosamines in Drinking Water and Human Urinary Excretions in High Incidence Area of Esophageal Cancer in Huai'an, China. *Chemosphere*. 2019 Nov;235:288-296.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA