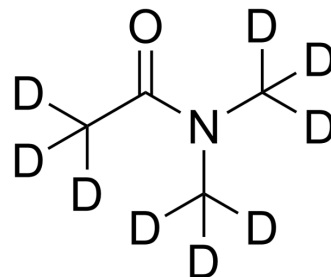


## N,N-Dimethylacetamide-d<sub>9</sub>

<b>Cat. No.:</b>	HY-W042416S		
<b>CAS No.:</b>	16727-10-9		
<b>Molecular Formula:</b>	C <sub>4</sub> D <sub>9</sub> NO		
<b>Molecular Weight:</b>	96.18		
<b>Target:</b>	Isotope-Labeled Compounds		
<b>Pathway:</b>	Others		
<b>Storage:</b>	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### BIOLOGICAL ACTIVITY

<b>Description</b>	N,N-Dimethylacetamide-d <sub>9</sub> is the deuterium labeled N,N-Dimethylacetamide[1]. N,N-Dimethylacetamide (DMAc) is an inexpensive, common aprotic organic solvent[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]. Sundaram S, et al. N,N-dimethylacetamide regulates the proinflammatory response associated with endotoxin and prevents preterm birth. *Am J Pathol*. 2013 Aug;183(2):422-30.

**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