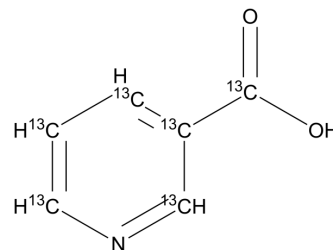


## Niacin-<sup>13</sup>C<sub>6</sub>

<b>Cat. No.:</b>	HY-B0143S3		
<b>CAS No.:</b>	1189954-79-7		
<b>Molecular Formula:</b>	<sup>13</sup> C <sub>6</sub> H <sub>5</sub> NO <sub>2</sub>		
<b>Molecular Weight:</b>	129.07		
<b>Target:</b>	Autophagy; Endogenous Metabolite		
<b>Pathway:</b>	Autophagy; Metabolic Enzyme/Protease		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 50 mg/mL (387.39 mM; ultrasonic and warming and heat to 60°C)  
 H<sub>2</sub>O : 10 mg/mL (77.48 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent		1 mg	5 mg	10 mg
	Concentration	Mass			
	1 mM		7.7477 mL	38.7387 mL	77.4773 mL
	5 mM		1.5495 mL	7.7477 mL	15.4955 mL
	10 mM		0.7748 mL	3.8739 mL	7.7477 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

Niacin-<sup>13</sup>C<sub>6</sub> is the <sup>13</sup>C-labeled Niacin. Niacin (Nicotinic acid) is a vitamin and is part of the vitamin B group.

#### 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<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;53(2):211-216.

[2]. Bruckert E, et al. Meta-analysis of the effect of nicotinic acid alone or in combination on cardiovascular events and atherosclerosis. *Atherosclerosis.* 2010 Jun;210(2):353-61.

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[3]. Wan P, et al. Pellagra: a review with emphasis on photosensitivity. Br J Dermatol. 2011 Jun;164(6):1188-200.

[4]. Ishii N, et al. Pellagra among chronic alcoholics: clinical and pathological study of 20 necropsy cases. J Neurol Neurosurg Psychiatry. 1981 Mar;44(3):209-15.

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**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](mailto:tech@MedChemExpress.com)

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