Niacin-d_4

Cat. No.: HY-B0143S2

CAS No.: 66148-15-0

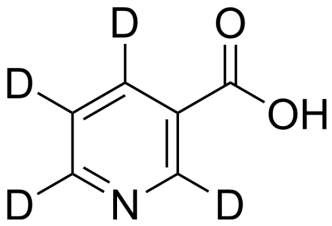
Molecular Formula: $C_6HD_4NO_2$

Molecular Weight: 127.13

Target: Autophagy; Endogenous Metabolite

Pathway: Autophagy; Metabolic Enzyme/Protease

Storage: 4°C, sealed storage, away from moisture and light
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 83.33 mg/mL (655.47 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	7.8660 mL	39.3298 mL	78.6596 mL
	5 mM	1.5732 mL	7.8660 mL	15.7319 mL
	10 mM	0.7866 mL	3.9330 mL	7.8660 mL

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

BIOLOGICAL ACTIVITY

Description

Niacin-d_4 is the deuterium 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[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;53(2):211-216. ;Bruckert E, et al. Meta-analysis of the effect of nicotinic acid alone or in combination on cardiovascular events and ath

[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.

[3]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.

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