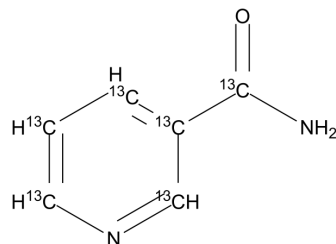


Nicotinamide-¹³C₆

Cat. No.:	HY-B0150S2
CAS No.:	2749910-55-0
Molecular Formula:	¹³ C ₆ H ₆ N ₂ O
Molecular Weight:	128.08
Target:	Sirtuin; Endogenous Metabolite
Pathway:	Cell Cycle/DNA Damage; Epigenetics; Metabolic Enzyme/Protease
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



BIOLOGICAL ACTIVITY

Description	Nicotinamide- ¹³ C ₆ is the ¹³ C-labeled Nicotinamide. Nicotinamide is a form of vitamin B3 that plays essential roles in cell physiology through facilitating NAD ⁺ redox homeostasis and providing NAD ⁺ as a substrate to a class of enzymes that catalyze non-redox reactions. Nicotinamide is an inhibitor of SIRT1.
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

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- [4]. Fushima T, et al. Nicotinamide ameliorates a preeclampsia-like condition in mice with reduced uterine perfusion pressure. *Am J Physiol Renal Physiol.* 2016 Dec 7:ajprenal.00501.2016
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Caution: Product has not been fully validated for medical applications. For research use only.

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