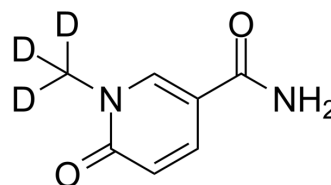


Nudifloramide-d₃

Cat. No.:	HY-113432S
CAS No.:	1207384-48-2
Molecular Formula:	C ₇ H ₃ D ₃ N ₂ O ₂
Molecular Weight:	155.17
Target:	Endogenous Metabolite; PARP
Pathway:	Metabolic Enzyme/Protease; Cell Cycle/DNA Damage; Epigenetics
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



BIOLOGICAL ACTIVITY

Description	Nudifloramide-d ₃ (2PY-d ₃) is the deuterium labeled Nudifloramide. Nudifloramide (2PY) is one of the end products of nicotinamide-adenine dinucleotide (NAD) degradation. Nudifloramide significantly inhibits poly(ADP-ribose) polymerase (PARP-1) activity in vitro[1].
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.
- [2]. Rutkowski B, et al. N-methyl-2-pyridone-5-carboxamide: a novel uremic toxin? *Kidney Int Suppl.* 2003 May;(84):S19-21.

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

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