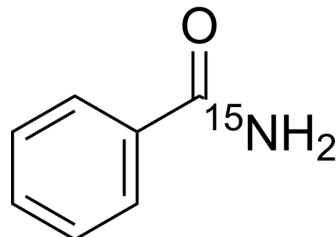


Benzamide-¹⁵N

Cat. No.:	HY-Z0283S		
CAS No.:	31656-62-9		
Molecular Formula:	C ₇ H ₇ ¹⁵ NO		
Molecular Weight:	122.13		
Target:	Endogenous Metabolite; PARP		
Pathway:	Metabolic Enzyme/Protease; Cell Cycle/DNA Damage; Epigenetics		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (818.80 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	8.1880 mL	40.9400 mL	81.8800 mL
5 mM	1.6376 mL	8.1880 mL	16.3760 mL
10 mM	0.8188 mL	4.0940 mL	8.1880 mL

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

BIOLOGICAL ACTIVITY

Description

Benzamide-¹⁵N is a ¹⁵N-labeled Benzamide. Benzamide inhibits poly(ADP-ribose) polymerase (PARP)[1][2].

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]. Cosi C, et al. Benzamide, an inhibitor of poly(ADP-ribose) polymerase, attenuates methamphetamine-induced dopamine neurotoxicity in the C57B1/6N mouse. *Brain Res.* 1996;735(2):343-348.

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

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