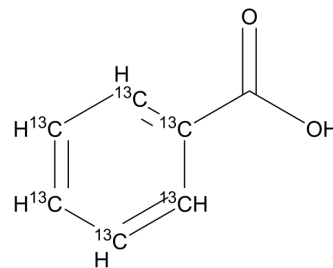


Benzoic acid-¹³C₆

Cat. No.:	HY-N0216S1
CAS No.:	125945-98-4
Molecular Formula:	C ¹³ C ₆ H ₆ O ₂
Molecular Weight:	128.08
Target:	Fungal; Bacterial; Endogenous Metabolite
Pathway:	Anti-infection; Metabolic Enzyme/Protease
Storage:	4°C, stored under nitrogen, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (975.95 mM; Need ultrasonic)
DMSO : 125 mg/mL (975.95 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	7.8076 mL	39.0381 mL	78.0762 mL
	5 mM	1.5615 mL	7.8076 mL	15.6152 mL
	10 mM	0.7808 mL	3.9038 mL	7.8076 mL

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

BIOLOGICAL ACTIVITY

Description

Benzoic acid-¹³C₆ is the ¹³C-labeled Benzoic acid. Benzoic acid is an aromatic alcohol existing naturally in many plants and is a common additive to food, drinks, cosmetics and other products. It acts as preservatives through inhibiting both bacteria and fungi.

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.

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

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