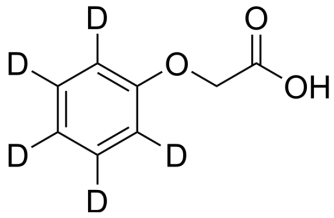
Phenoxyacetic acid-d_5

Cat. No.:	HY-Y0267S
CAS No.:	154492-74-7
Molecular Formula:	$C_8H_3D_5O_3$
Molecular Weight:	157.18
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
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 : 50 mg/mL (318.11 mM; Need ultrasonic and warming)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	6.3621 mL	31.8107 mL	63.6213 mL
	5 mM	1.2724 mL	6.3621 mL	12.7243 mL
	10 mM	0.6362 mL	3.1811 mL	6.3621 mL

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

BIOLOGICAL ACTIVITY

Description

Phenoxyacetic acid-d_5 is the deuterium labeled Phenoxyacetic acid[1]. Phenoxyacetic acid is an endogenous metabolite.

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 Feb;53(2):211-216.

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

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