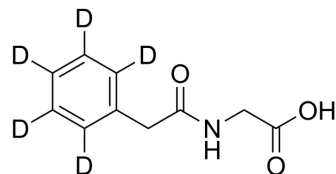


## N-(Phenylacetyl-d<sub>5</sub>)glycine

<b>Cat. No.:</b>	HY-W015061S		
<b>CAS No.:</b>	1189920-31-7		
<b>Molecular Formula:</b>	C <sub>10</sub> H <sub>6</sub> D <sub>5</sub> NO <sub>3</sub>		
<b>Molecular Weight:</b>	198.23		
<b>Target:</b>	Endogenous Metabolite; Adrenergic Receptor; Apoptosis		
<b>Pathway:</b>	Metabolic Enzyme/Protease; GPCR/G Protein; Neuronal Signaling; Apoptosis		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### BIOLOGICAL ACTIVITY

<b>Description</b>	N-(Phenylacetyl-d <sub>5</sub> )glycine is the deuterium labeled Phenylacetylglycine. Phenylacetylglycine is a gut microbial metabolite that can activate β <sub>2</sub> AR. Phenylacetylglycine protects against cardiac injury caused by ischemia/reperfusion[1][2].
<b>In Vitro</b>	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 <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Xu X, et al. The gut microbial metabolite phenylacetylglycine protects against cardiac injury caused by ischemia/reperfusion through activating β<sub>2</sub>AR. Arch Biochem Biophys. 2021 Jan 15;697:108720.

[2]. 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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