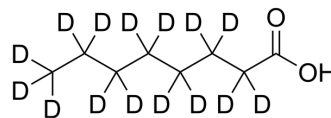


## Octanoic acid-d<sub>15</sub>

<b>Cat. No.:</b>	HY-41417S	
<b>CAS No.:</b>	69974-55-6	
<b>Molecular Formula:</b>	C <sub>8</sub> HD <sub>15</sub> O <sub>2</sub>	
<b>Molecular Weight:</b>	159.3	
<b>Target:</b>	Endogenous Metabolite	
<b>Pathway:</b>	Metabolic Enzyme/Protease	
<b>Storage:</b>	Pure form	-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 (627.75 mM)  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent	1 mg	5 mg	10 mg
	Concentration			
	1 mM	6.2775 mL	31.3873 mL	62.7746 mL
	5 mM	1.2555 mL	6.2775 mL	12.5549 mL
	10 mM	0.6277 mL	3.1387 mL	6.2775 mL

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

### BIOLOGICAL ACTIVITY

#### Description

Octanoic acid-d<sub>15</sub> is the deuterium labeled Octanoic acid. Octanoic acid (Caprylic acid) is an oily liquid with a slightly unpleasant rancid taste and used commercially in the production of esters used in perfumery and also in the manufacture of dyes.

#### 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<sup>[1]</sup>.  
 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.

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

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