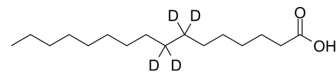


## Palmitic acid-d<sub>4</sub>

<b>Cat. No.:</b>	HY-N0830S7
<b>CAS No.:</b>	75736-49-1
<b>Molecular Formula:</b>	C <sub>16</sub> H <sub>28</sub> D <sub>4</sub> O <sub>2</sub>
<b>Molecular Weight:</b>	260.45
<b>Target:</b>	HSP
<b>Pathway:</b>	Cell Cycle/DNA Damage; Metabolic Enzyme/Protease
<b>Storage:</b>	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



### SOLVENT & SOLUBILITY

#### In Vitro

Ethanol : ≥ 30 mg/mL (115.19 mM)  
 Ethanol : ≥ 30 mg/mL (115.19 mM)  
 DMSO : ≥ 20 mg/mL (76.79 mM)  
 DMSO : ≥ 20 mg/mL (76.79 mM)  
 DMF : ≥ 20 mg/mL (76.79 mM)  
 DMF : ≥ 20 mg/mL (76.79 mM)  
 \* "≥" means soluble, but saturation unknown.

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM		3.8395 mL	19.1975 mL	38.3951 mL
	5 mM		0.7679 mL	3.8395 mL	7.6790 mL
	10 mM		0.3840 mL	1.9198 mL	3.8395 mL

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

### BIOLOGICAL ACTIVITY

#### Description

Palmitic acid-d<sub>4</sub> is the deuterium labeled Palmitic acid. Palmitic acid is a long-chain saturated fatty acid commonly found in both animals and plants. Palmitic acid can induce the expression of glucose-regulated protein 78 (GRP78) and CCAAT/enhancer binding protein homologous protein (CHOP) in in mouse granulosa cells[1][2].

### 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.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA