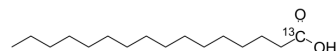


Palmitic acid-1-¹³C

Cat. No.:	HY-N0830S3		
CAS No.:	57677-53-9		
Molecular Formula:	C ₁₅ ¹³ CH ₃₂ O ₂		
Molecular Weight:	257.42		
Target:	HSP		
Pathway:	Cell Cycle/DNA Damage; Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 66.67 mg/mL (258.99 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent \ Mass \ Concentration	1 mg	5 mg	10 mg
		1 mM	3.8847 mL	19.4235 mL	38.8470 mL
		5 mM	0.7769 mL	3.8847 mL	7.7694 mL
		10 mM	0.3885 mL	1.9424 mL	3.8847 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (9.71 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Palmitic acid-1- ¹³ C is the ¹³ C-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].
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REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216.
- [2]. Harada H, et al. Antitumor activity of palmitic acid found as a selective cytotoxic substance in a marine red alga. *Anticancer Res.* 2002 Sep-Oct;22(5):2587-90.

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

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