Palmitic acid-d₃₁

MedChemExpress

Cat. No.:	HY-N0830S2			
CAS No.:	39756-30-4			
Molecular Formula:	C ₁₆ HD ₃₁ O ₂			
Molecular Weight:	287.62			
Target:	HSP; Endogenous Metabolite			
Pathway:	Cell Cycle/DNA Damage; Metabolic Enzyme/Protease			
Storage:	-20°C, sealed storage, away from moisture			
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)			

SOLVENT & SOLUBILITY

	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
		1 mM	3.4768 mL	17.3840 mL	34.7681 mL
		5 mM	0.6954 mL	3.4768 mL	6.9536 mL
		10 mM	0.3477 mL	1.7384 mL	3.4768 mL
	Please refer to the so	ubility information to select the app	propriate solvent.	1	1

BIOLOGICAL ACTIVITY					
Description	Palmitic acid-d ₃₁ is the deuterium labeled Palmitic acid. Palmitic acid is a long-chain saturated fatty acid commonly found in both animals and plants. PA 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].				
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;53(2):211-216.

Proteins

Product Data Sheet

[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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