

Product Data Sheet

Palmitic acid-13C

Cat. No.:HY-N0830S9CAS No.:287100-87-2Molecular 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

4°C 2 years -80°C 6 months

-20°C 1 month

13_C O_P

SOLVENT & SOLUBILITY

In Vitro

DMSO: 100 mg/mL (388.47 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.

BIOLOGICAL ACTIVITY

Description

Palmitic acid-13C is the 13C-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.

[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.

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

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