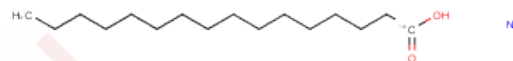


Palmitic acid-13C sodium

Chemical Properties

CAS No. :	201612-54-6
Formula:	¹³ C C ₁₅ H ₃₁ NaO ₂
Molecular Weight:	279.4
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Palmitic acid-13C sodium is the ¹³ C-labeled variant of palmitic acid sodium (T77788), a long-chain saturated fatty acid prevalent in animals and plants. This compound has been shown to induce the expression of glucose-regulated protein 78 (GRP78) and CCAAT/enhancer-binding protein homologous protein (CHOP) in mouse granulosa cells.
Targets(IC50)	HSP

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5791 mL	17.8955 mL	35.791 mL
5 mM	0.7158 mL	3.5791 mL	7.1582 mL
10 mM	0.3579 mL	1.7895 mL	3.5791 mL
50 mM	0.0716 mL	0.3579 mL	0.7158 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-216.

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.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481