2-Fluoropalmitic acid

Cat. No.: HY-117651

CAS No.: 16518-94-8

Molecular Formula: $C_{16}H_{31}FO_2$

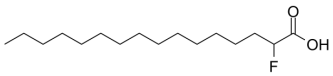
Molecular Weight: 274.41

Target: Acyltransferase

Pathway: Metabolic Enzyme/Protease

Storage:

Powder	-20°C	3 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (364.42 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	3.6442 mL	18.2209 mL	36.4418 mL
5 mM	0.7288 mL	3.6442 mL	7.2884 mL
10 mM	0.3644 mL	1.8221 mL	3.6442 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 (9.11 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

2-Fluoropalmitic acid, an acyl-CoA synthetase inhibitor, acts as a candidate anti-glioma agent. 2-Fluoropalmitic acid suppresses the viability and stem-like phenotype of glioma stem cells (GSCs). 2-Fluoropalmitic acid also inhibits proliferation and invasion of glioma cell lines[1].

REFERENCES

[1]. Shabierjiang Jiapaer 1, et al. Identification of 2-Fluoropalmitic Acid as a Potential Therapeutic Agent Against Glioblastoma. Curr Pharm Des. 2020;26(36):4675-4684.

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

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