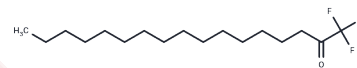


PACOCF3

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 141022-99-3 |
| Formula: | C17H31F3O |
| Molecular Weight: | 308.42 |
| 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 | PACOCF3 (Palmityltrifluoromethylketone) (Palmityltrifluoromethylketone) is an inhibitor of Ca(2+)-independent phospholipase A2(PLA2) with an IC 50 of 3.8 μM. PACOCF3 alters Ca 2+ signaling in renal tubular cells [1] [2]. |
| Targets(IC50) | Phospholipase |
| In vitro | PACOCF3 does not affect basal cytosolic free calcium concentrations ([Ca2+]i) at 20 μM, but a dosage between 50-250 μM triggers an increase in [Ca2+]i through the stimulation of extracellular Ca2+ entry, which can be partially inhibited by 50 μM La3+[2]. This PACOCF3-induced effect is negated when extracellular Ca2+ is removed. At a concentration of 10 μM, PACOCF3 amplifies the peak and the area under the curve of the [Ca2+]i surge elicited by 10 μM ATP and 1 μM bradykinin, by enhancing extracellular Ca2+ influx without altering internal Ca2+ release[2]. |

Solubility Information

| | |
|------------|--|
| Solubility | DMSO: 45 mg/mL (145.9 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 3.2423 mL | 16.2117 mL | 32.4233 mL |
| 5 mM | 0.6485 mL | 3.2423 mL | 6.4847 mL |
| 10 mM | 0.3242 mL | 1.6212 mL | 3.2423 mL |
| 50 mM | 0.0648 mL | 0.3242 mL | 0.6485 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

E J Ackermann, et al. Inhibition of macrophage Ca(2+)-independent phospholipase A2 by bromoenol lactone and trifluoromethyl ketones. J Biol Chem. 1995 Jan 6;270(1):445-50.

C R Jan, et al. Dual action of palmitoyl trifluoromethyl ketone (PACOCF3) on Ca2+ signaling: activation of extracellular Ca2+ influx and alteration of ATP- and bradykinin-induced Ca2+ responses in Madin Darby canine kidney cells. Arch Toxicol. 2000 Oct;74.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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