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Print Date: Jan 15th 2016

Certificate of Analysis

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Product Name: **PACOCF$_3$** **Catalog No.: 1460** **Batch No.: 1**

CAS Number: 141022-99-3

IUPAC Name: 1,1,1-Trifluoro-2-heptadecanone

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{17}H_{31}F_3O$

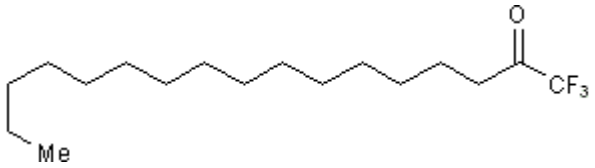
Batch Molecular Weight: 308.43

Physical Appearance: White solid

Solubility: DMSO to 25 mM
ethanol to 50 mM

Storage: Desiccate at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.51 (Ether:Hexane [1:2])

Melting Point: At 31°C

HPLC: Shows >99.1% purity

^{1}H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	66.2	10.13	
Found	66.3	10.03	

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CAS Number: 141022-99-3

IUPAC Name: 1,1,1-Trifluoro-2-heptadecanone

Description:

Phospholipase A_2 inhibitor. Can also alter Ca^{2+} signaling in renal tubular cells.

Physical and Chemical Properties:

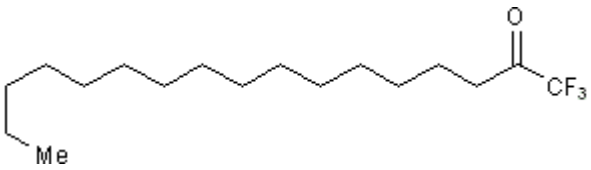
Batch Molecular Formula: $C_{17}H_{31}F_3O$

Batch Molecular Weight: 308.43

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at -20°C

Solubility & Usage Info:

DMSO to 25 mM
ethanol to 50 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Ackermann *et al* (1995) Inhibition of macrophage Ca^{2+}-independent phospholipase A_2 by bromoenol lactone and trifluoromethyl ketones. J.Biol.Chem. ***270*** 445. PMID: 7814408.

Lio *et al* (1996) Irreversible inhibition of Ca^{2+}-independent phospholipase A_2 by methyl arachidonyl fluorophosphonate. Biochim.Biophys.Acta ***1302*** 55. PMID: 8695655.

Jan *et al* (2000) Dual action of palmitoyl trifluoromethyl ketone (PACOCF3) on Ca^{2+} signaling: activation of extracellular Ca^{2+} influx and alteration of ATP- and bradykinin-induced Ca^{2+} responses in Madin Darby canine kidney cells. Arch.Toxicol. ***74*** 447. PMID: 11097381.