

Certificate of Analysis

www.tocris.com

Product Name: PCA 4248

Catalog No.: 0571

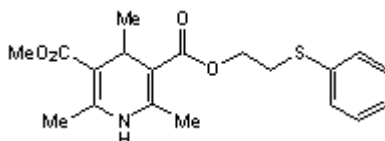
Batch No.: 2

CAS Number: 123875-01-4

IUPAC Name: 1,4-Dihydro-2,4,6-trimethyl-3,5-pyridinedicarboxylic acid methyl 2-(phenylthio)ethyl ester

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₂₃NO₄S
Batch Molecular Weight: 361.46
Physical Appearance: White solid
Solubility: DMSO to 100 mM
ethanol to 100 mM
Storage: Desiccate at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.2 (Diethyl ether:Petroleum ether [1:1])
HPLC: Shows 95.1% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.14	6.41	3.87
Found	63.06	6.53	3.66

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

Product Name: PCA 4248

Catalog No.: 0571

Batch No.: 2

CAS Number: 123875-01-4

IUPAC Name: 1,4-Dihydro-2,4,6-trimethyl-3,5-pyridinedicarboxylic acid methyl 2-(phenylthio)ethyl ester

Description:

A specific PAF antagonist, more potent than the ginkgolide BN-52021. Inhibits rabbit platelet aggregation with an IC₅₀ value of 1.05 μM and has no significant activity on Ca²⁺ channels. Active in vivo, antagonizing PAF-induced systemic hypotension and protein-plasma extravasation in rats.

Physical and Chemical Properties:

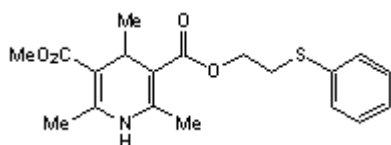
Batch Molecular Formula: C₁₉H₂₃NO₄S

Batch Molecular Weight: 361.46

Physical Appearance: White solid

Minimum Purity: >95%

Batch Molecular Structure:



References:

Fernandez-Gallardo et al (1990) Pharmacological actions of PCA 4248, a new platelet-activating factor receptor antagonist: *in vivo* studies. *J.Pharmacol.Exp.Ther.* **255** 34. PMID: 2170626.

Sunkel et al (1990) 4-Alkyl-1,4-dihydropyridine derivatives as specific PAF-acether antagonists. *J.Med.Chem.* **33** 3205. PMID: 2175357.

Sunkel et al (1990) 1,4-Dihydropyridines, a new class of platelet activating factor receptor antagonists: *in vitro* pharmacological studies. *J.Pharmacol.Exp.Ther.* **255** 28. PMID: 2170624.

Storage: Desiccate at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 100 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.

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956