

Certificate of Analysis

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Product Name: AA 2414

Catalog No.: 3025

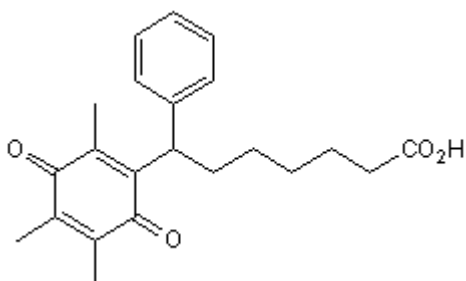
Batch No.: 1

CAS Number: 112665-43-7

IUPAC Name: 7-(3,5,6-Trimethyl-1,4-benzoquinon-2-yl)-7-phenylheptanoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₂₆O₄
Batch Molecular Weight: 354.44
Physical Appearance: Orange solid
Solubility: 1.1eq. NaOH to 75 mM
DMSO to 100 mM
ethanol to 50 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: Between 127 - 129°C
HPLC: Shows >98.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	74.55	7.39	
Found	74.7	7.37	

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

Product Information

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Description:

Thromboxane A₂ (TP) receptor antagonist. Antiasthmatic agent; inhibits platelet aggregation and bronchoconstriction induced by a TXA₂ mimetic in guinea pigs.

Physical and Chemical Properties:

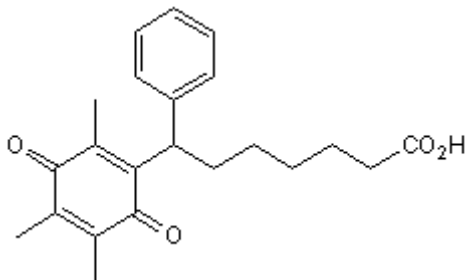
Batch Molecular Formula: C₂₂H₂₆O₄

Batch Molecular Weight: 354.44

Physical Appearance: Orange solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

1.1eq. NaOH to 75 mM

DMSO to 100 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:

Ashida *et al* (1989) A novel anti-asthmatic quinone derivative, AA-2414 with a potent antagonistic activity against a variety of spasmogenic prostanoids. *Prostaglandins* **38** 91. PMID: 2748922.

Kurokawa *et al* (1994) Antagonism of the human thromboxane A₂ receptor by an anti-asthmatic agent AA-2414. *Biol.Pharm.Bull.* **17** 383. PMID: 8019502.

Cui *et al* (2007) Leukotrienes and cyclooxygenase products mediate anaphylactic venoconstriction in ovalbumin sensitized rat livers. *Eur.J.Pharmacol.* **576** 99. PMID: 17706964.

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