

Certificate of Analysis

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Product Name: OBAA

Catalog No.: 0606

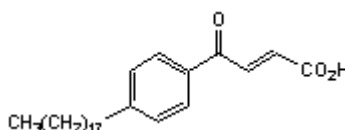
Batch No.: 2

CAS Number: 221632-26-4

IUPAC Name: 4-(4-Octadecylphenyl)-4-oxobutenoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₈H₄₄O₃
Batch Molecular Weight: 428.65
Physical Appearance: Light yellow solid
Solubility: DMSO to 10 mM with gentle warming
Storage: Desiccate at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	78.46	10.35	0
Found	78.53	10.43	0

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

Product Information

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Description:

A potent inhibitor of phospholipase A₂ (IC₅₀ = 70 nM). Reduces bronchospasm in guinea pigs in vivo.

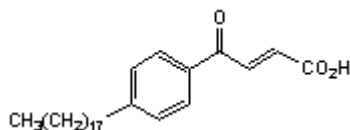
Physical and Chemical Properties:

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Physical Appearance: Light yellow solid

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Storage: Desiccate at +4°C

Solubility & Usage Info:

DMSO to 10 mM with gentle warming

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:

Kohler et al (1991) Phospholipase-A₂ inhibition by alkylbenzoyl acrylic acids. Agents Actions **32** 70. PMID: 2058477.

Madi et al (1991) Allergen-induced bronchospasm in passively sensitized guinea-pigs - influence of new substances in comparison to reference compounds. Agents Actions **32** 144. PMID: 2058463.

Kohler et al (1992) Phospholipase A₂ inhibition by alkylbenzoyl acrylic acids. Biochem.Pharmacol. **44** 805. PMID: 1324685.

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