

Certificate of Analysis

Product Name: *N*-Methylidocaine iodide

Catalog No.: 1042

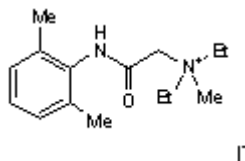
Batch No.: 2

CAS Number: 1462-71-1

IUPAC Name: 2-[(2,6-Dimethylphenyl)amino]-*N,N*-diethyl-*N*-methyl-2-oxoethanaminium iodide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₂₅IN₂O
Batch Molecular Weight: 376.28
Physical Appearance: White crystalline solid
Solubility: Soluble in DMSO water to 50 mM
Storage: Desiccate at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.74 (Chloroform:Methanol [7:3])
Melting Point: Between 154 - 155°C
¹H NMR: Consistent with structure
Microanalysis:

| | Carbon | Hydrogen | Nitrogen | | |
|-------------|--------|----------|----------|---|---|
| Theoretical | 47.88 | 6.7 | 7.44 | 0 | 0 |
| Found | 48.08 | 6.79 | 7.66 | 0 | 0 |

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

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Description:

Antiarrhythmic. Enhances the biosynthesis of phosphatidylinositol in hamster heart.

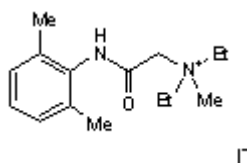
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CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

Soluble in DMSO water 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:

Tardi et al (1992) The effect of methyl-lidocaine on the biosynthesis of phospholipids *de novo* in the isolated hamster heart. *Biochem.J.* **285** 161. PMID: 1322123.

Lee et al (1995) The modulation of phosphatidylinositol in hamster hearts by methyl lidocaine. *Biochem.J.* **309** 871. PMID: 7639704.

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