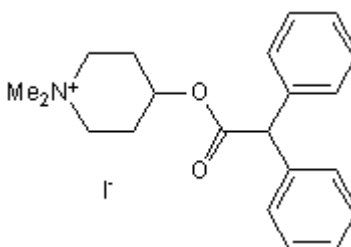


**Product Name:** 4-DAMP  
**CAS Number:** 1952-15-4  
**IUPAC Name:** 1,1-Dimethyl-4-diphenylacetoxypiperidinium iodide

**Catalog No.:** 0482      **Batch No.:** 1

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>21</sub>H<sub>26</sub>INO<sub>2</sub>  
**Batch Molecular Weight:** 451.33  
**Physical Appearance:** White crystalline solid  
**Solubility:** DMSO to 25 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**Melting Point:** Between 211 - 213°C  
**HPLC:** Shows >99.9% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

	Carbon Hydrogen Nitrogen		
	Theoretical	Found	
	55.88	55.76	5.81
			5.74
			3.1
			2.94

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

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**Catalog No.:** 0482

**Batch No.:** 1

CAS Number: 1952-15-4

IUPAC Name: 1,1-Dimethyl-4-diphenylacetoxypiperidinium iodide

**Description:**

Antagonist at the M<sub>3</sub> cholinergic receptor. [<sup>3</sup>H]-4-DAMP selectively labels M<sub>1</sub> and M<sub>3</sub> receptors.

**Physical and Chemical Properties:**

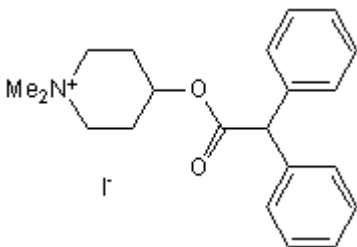
Batch Molecular Formula: C<sub>21</sub>H<sub>26</sub>INO<sub>2</sub>

Batch Molecular Weight: 451.33

Physical Appearance: White crystalline solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

DMSO to 25 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:**

**Barlow and Shepherd** (1986) A further search for selective antagonists at M<sub>2</sub>- muscarinic receptors. Br.J.Pharmacol. **89** 837. PMID: 3814912.

**Michel et al** (1989) Direct labelling of rat M<sub>3</sub>-muscarinic receptors by [<sup>3</sup>H]4-DAMP. Eur.J.Pharmacol. **166** 459. PMID: 2806372.

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