

**Product Name:** W-84 dibromide

**Catalog No.:** 0532

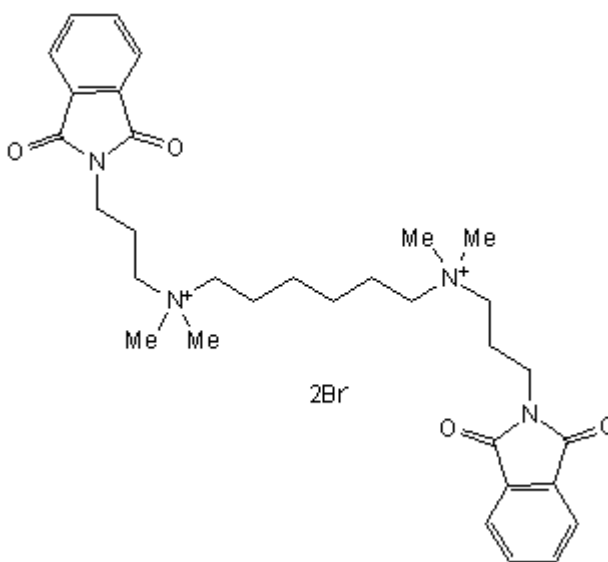
**Batch No.:** 1

CAS Number: 21093-51-6

IUPAC Name: Hexamethylene-bis-[dimethyl-(3-phthalimidopropyl)ammonium]dibromide

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:**  $C_{32}H_{44}Br_2N_4O_4$   
**Batch Molecular Weight:** 708.53  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 10 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**$^1H$  NMR:** Consistent with structure

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**Description:**

Stabilizes cholinergic antagonist-receptor complexes by an allosteric effect. Increases the protective effect of atropine against organophosphate poisoning.

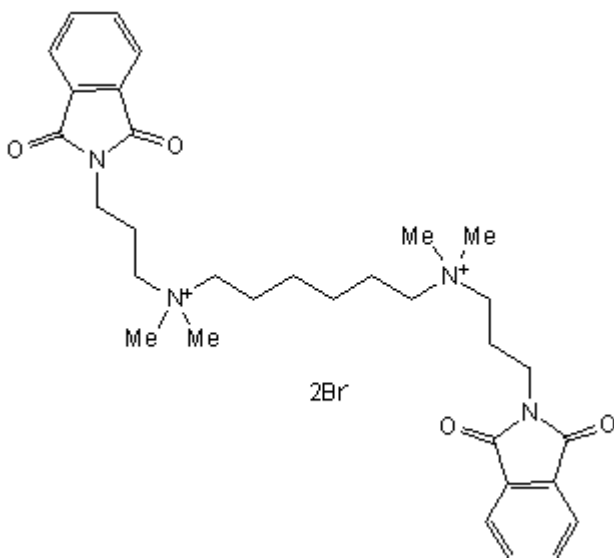
**Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>32</sub>H<sub>44</sub>Br<sub>2</sub>N<sub>4</sub>O<sub>4</sub>

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Physical Appearance: White solid

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**Storage:** Store at RT

**Solubility & Usage Info:**

DMSO to 10 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:**

**Mohr et al** (1992) Equipotent allosteric effect of W84 on [<sup>3</sup>H]-NMS binding to cardiac muscarinic receptors from guinea-pig, rat and pig. *Pharmacol.Toxicol.* **70** 198. PMID: 1579545.

**Jepsen et al** (1988) Allosteric stabilisation of [<sup>3</sup>H]-N-methylscopolamine binding in guinea pig myocardium by an antidote against organophosphate intoxication. *Pharmacol.Toxicol.* **63** 163. PMID: 3054859.

**Mitchelson** (1975) Antimuscarinic action of an alkane-bis ammonium compound alone and in combination with (+)-benzsetimide. *Eur.J.Pharmacol.* **33** 237. PMID: 1242377.

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