

Certificate of Analysis

www.tocris.com

Product Name: DHBP dibromide

CAS Number: 6159-05-3

IUPAC Name: 1,1'-Diheptyl-4,4'-bipyridinium dibromide

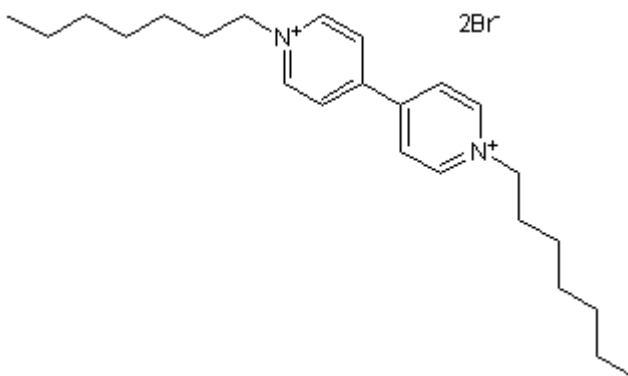
Catalog No.: 0839

Batch No.: 3

EC Number: 228-178-7

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{24}H_{38}Br_2N_2$
Batch Molecular Weight: 514.39
Physical Appearance: Golden solid
Solubility: water to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows >96.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	56.04	7.45	5.45
Found	56.21	7.36	5.52

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

Product Information

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Description:

Blocks calcium release from sarcoplasmic reticulum by direct interaction with the ryanodine receptor.

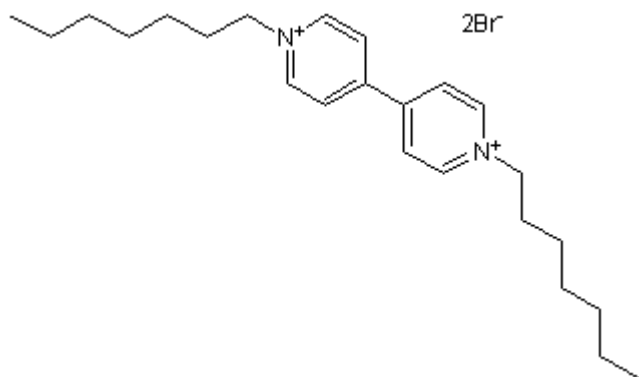
Physical and Chemical Properties:

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Batch Molecular Weight: 514.39

Physical Appearance: Golden solid

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 100 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:

Kang et al (1994) Effects of bipyridylium compounds on calcium release from triadic vesicles isolated from rabbit skeletal muscle. *Br.J.Pharmacol.* **112** 1216. PMID: 7952884.

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