TOCRIS
a bio-techne brand

Print Date: Apr 19th 2016

Certificate of Analysis

www.tocris.com

Product Name: **Decynium 22** **Catalog No.: 4722** **Batch No.: 2**

CAS Number: 977-96-8 EC Number: 213-556-6

IUPAC Name: 1-Ethyl-2-[(1-ethyl-2(1*H*)-quinolinylidene)methyl]quinolinium iodide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{23}H_{23}IN_2.¼H_2O$

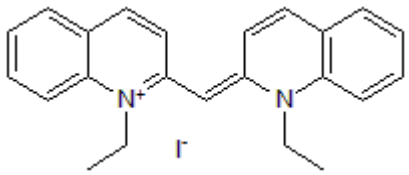
Batch Molecular Weight: 458.85

Physical Appearance: Red solid

Solubility: DMSO to 10 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	60.2	5.16	6.11
Found	60.35	5.15	6.14

bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
Tel: (800) 343 7475

China
info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa
Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
Tel:+1 612 379 2956

Product Name: **Decynium 22** **Catalog No.: 4722** **Batch No.: 2**

CAS Number: 977-96-8 EC Number: 213-556-6

IUPAC Name: 1-Ethyl-2-[(1-ethyl-2(1*H*)-quinolinylidene)methyl]quinolinium iodide

Description:

Inhibitor of the plasma membrane monoamine transporter (PMAT) (K_i = 0.10 µM).

Physical and Chemical Properties:

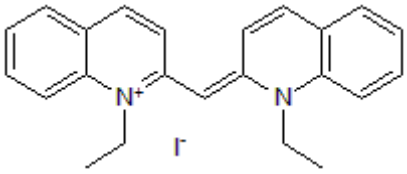
Batch Molecular Formula: $C_{23}H_{23}IN_2.¼H_2O$

Batch Molecular Weight: 458.85

Physical Appearance: Red solid

Minimum Purity: >98%

Batch Molecular Structure:



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:

Xia *et al* (2009) Podocyte-specific expression of organic cation transporter PMAT: implication in puromycin aminonucleoside nephrotoxicity. Am.J.Physiol.Renal Physiol. ***296*** F1307. PMID: 19357181.

Engel and Wang (2005) Interaction of organic cations with a newly identified plasma membrane monoamine transporter. Mol.Pharmacol. ***68*** 1397. PMID: 16099839.