bio-techne
TOCRIS

Print Date: Jul 23rd 2025

Certificate of Analysis

www.tocris.com

Product Name: **RNA Imaging Probe 1c** **Catalog No.: 8813** **Batch No.: 1**

CAS Number: 3056402-41-3

IUPAC Name: 3-[(*E*)-2-(1-Methylpyridin-1-ium-4-yl)ethenyl]indolizine iodide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{16}H_{15}IN_2$

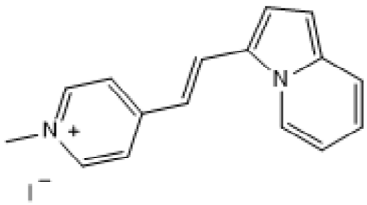
Batch Molecular Weight: 362.21

Physical Appearance: Dark purple solid

Solubility: DMSO to 20 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.8% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	53.06	4.17	7.73
Found	52.98	4.11	7.72

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

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Description:

RNA Imaging Probe 1c is a fluorogenic RNA imaging probe. RNA Imaging Probe 1c displays high membrane permeability, strong fluorogenic responses upon binding RNA, compatibility with fluorescence lifetime imaging microscopy (FLIM), low cytotoxicity, and excellent photostability. Excitation and emission maxima (λ) are 556 nm and 608 nm, respectively; quantum yield = 0.49; extinction coefficient = 27,500 $M^{-1}cm^{-1}$. Suitable for live cell imaging.

Physical and Chemical Properties:

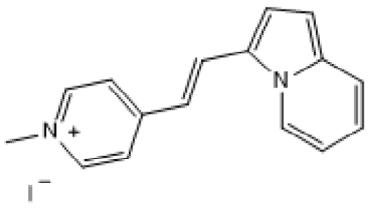
Batch Molecular Formula: $C_{16}H_{15}IN_2$

Batch Molecular Weight: 362.21

Physical Appearance: Dark purple solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

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:

DMSO to 20 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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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.

Licensing Information:

Sold under license from the University of Southern California.

References:

Kim *et al* (2023) Development of highly fluorogenic styrene probes for visualizing RNA in live cells. ACS Chem.Biol. ***18*** 1523. PMID: 37200527.