

Product Name: MitoBrilliant™ 646

Catalog No.: 7700

Batch No.: 3

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Weight: 493.55
Physical Appearance: Purple solid
Solubility: DMSO to 10 mM
Storage: Store at -20°C

2. ANALYTICAL DATA

HPLC: Shows 97.1% purity at 657 nm
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
λ_{max}: 655 nm (pH 7.4 PBS aq.)
λ_{ex}: 655 nm (pH 7.4 PBS aq.)
λ_{em}: 671 nm (pH 7.4 PBS aq.)

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

Product Name: MitoBrilliant™ 646**Catalog No.:** 7700**3****Description:**

MitoBrilliant probes have been developed to overcome some common limitations encountered with standard mitochondrial trackers, offering clearer answers to scientific questions. They are next-generation fluorescent stains for the localization and tracking of mitochondria in both live and fixed cells. The range harnesses Janelia Fluor® dye technology, conferring some of the properties that make these widely used dyes, into mitochondrial stains. Key information: MitoBrilliant™ 646 is a red-fluorescent mitochondrial stain for both live and fixed cells. Used for: mitochondrial staining for both live and pre-fixed cells/tissue. Applica... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

Batch Molecular Weight: 493.55

Physical Appearance: Purple solid

Minimum Purity: ≥95%**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 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. *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.

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