

## Certificate of Analysis

[www.tocris.com](http://www.tocris.com)

**Product Name:** MitoBrilliant™ 646

**Catalog No.:** 7700

**Batch No.:** 3

### 1. PHYSICAL AND CHEMICAL PROPERTIES

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

### 2. ANALYTICAL DATA

<b>HPLC:</b>	Shows 97.1% purity at 657 nm
<b><sup>1</sup>H NMR:</b>	Consistent with structure
<b>Mass Spectrum:</b>	Consistent with structure
<b>λ<sub>max</sub>:</b>	655 nm (pH 7.4 PBS aq.)
<b>λ<sub>ex</sub>:</b>	655 nm (pH 7.4 PBS aq.)
<b>λ<sub>em</sub>:</b>	671 nm (pH 7.4 PBS aq.)

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

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**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 fixed cells/tissue. Application... 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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