

Certificate of Analysis

www.tocris.com

Product Name: MitoBrilliant™ 646

Catalog No.: 7700

Batch No.: 1

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 97.5% purity at 657 nm
¹ H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
UV Spectrum:	Consistent with structure
λ_{\max} :	655 nm (PBS pH 7.4)
λ_{ex} :	655 nm (PBS pH 7.4)
λ_{em} :	668 nm (PBS pH 7.4)

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

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Tel: +1 612 379 2956

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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. MitoBrilliant™ 646 is a next-generation universal stain for mitochondria in both live and fixed cells. It is retained in mitochondria following fixation with exceptionally clear staining and i... 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. 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.

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