

Certificate of Analysis

www.tocris.com

Product Name: MitoBrilliant™ Live 549

Catalog No.: 7693

Batch No.: 1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Weight:	416.95
Physical Appearance:	Black solid
Solubility:	DMSO to 50 mM
Storage:	Store at -20°C

2. ANALYTICAL DATA

HPLC:	Shows 97.7% purity at 552.0 nm
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
λ_{max}:	550.0 nm (PBS (pH 7.4))
λ_{ex}:	550 nm (PBS (pH 7.4))
λ_{em}:	571 nm (PBS (pH 7.4))

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

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: MitoBrilliant™ Live 549

Catalog No.: 7693

1

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. The MitoBrilliant™ Live dyes accumulate in the mitochondria of live cells in a mitochondrial membrane potential ($\Delta\psi_m$) dependent manner. Upon loss of the mitochondrial membrane potent... Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

Batch Molecular Weight: 416.95

Physical Appearance: Black solid

Minimum Purity: $\geq 95\%$

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 50 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 $45\text{-}60^\circ\text{C}$ 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.

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

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