

Product Name: 6 TMR Tre

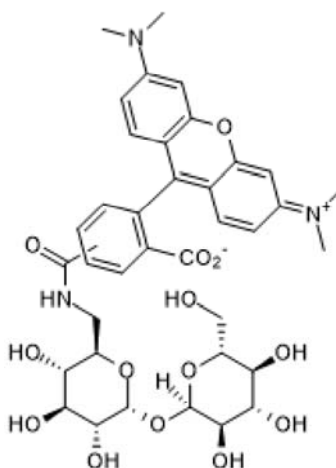
Catalog No.: 6802

Batch No.: 1

IUPAC Name: 6-[4(3)-[3,6-bis(dimethylamino)xanthylum-9-yl]-3(4)-carboxybenzoyl]amino-6-deoxy- α,α -D-trehalose

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₇H₄₃N₃O₁₄
Batch Molecular Weight: 753.75
Physical Appearance: Purple solid
Solubility: DMSO to 5 mg/ml
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.3% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

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

Product Name: 6 TMR Tre

Catalog No.: 6802

Batch No.: 1

IUPAC Name: 6-[4(3)-[3,6-bis(dimethylamino)xanthylum-9-yl]-3(4)-carboxybenzoyl]amino-6-deoxy- α,α -D-trehalose

Description:

Fluorescent trehalose conjugate for imaging bacterial cell envelope. Selectively labels mycobacterial trehalose monomycolate (TMM). Allows real-time visualization of peptidoglycan and monomycolate dynamics at the single-cell level. Suitable for use with confocal and super-resolution microscopy.

Physical and Chemical Properties:

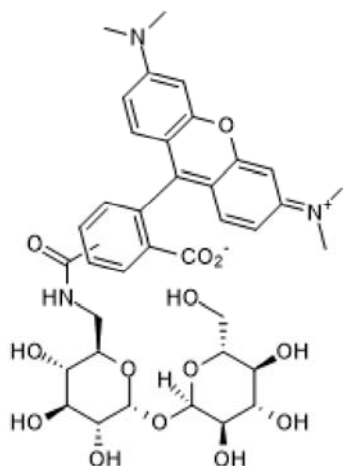
Batch Molecular Formula: C₃₇H₄₃N₃O₁₄

Batch Molecular Weight: 753.75

Physical Appearance: Purple solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C. This product is packaged under an inert atmosphere.

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 5 mg/ml

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.

References:

Rodriguez-Rivera et al (2018) Acute modulation of mycobacterial cell envelope biogenesis by front-line tuberculosis drugs. *Angew.Chem.Int.Ed.* **57** 5267. PMID: 29392891.

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