

Product Name: IRDye[®] 800CW, Maleimide

Catalog No.: 8880

Batch No.: 1

CAS Number: 1279564-25-8

IUPAC Name: Sodium 2-((*E*)-2-((*E*)-3-(2-((*E*)-1-(6-((2-(2,5-Dioxo-2,5-dihydro-1*H*-pyrrol-1-yl)ethyl)amino)-6-oxohexyl)-3,3-dimethyl-5-sulfonatoindolin-2-ylidene)ethylidene)-2-(4-sulfonatophenoxy)cyclohex-1-en-1-yl)vinyl)-3,3-dimethyl-1-(4-sulfonatobutyl)-3*H*-indol-1-ium-5-sulfonate

1. PHYSICAL AND CHEMICAL PROPERTIES

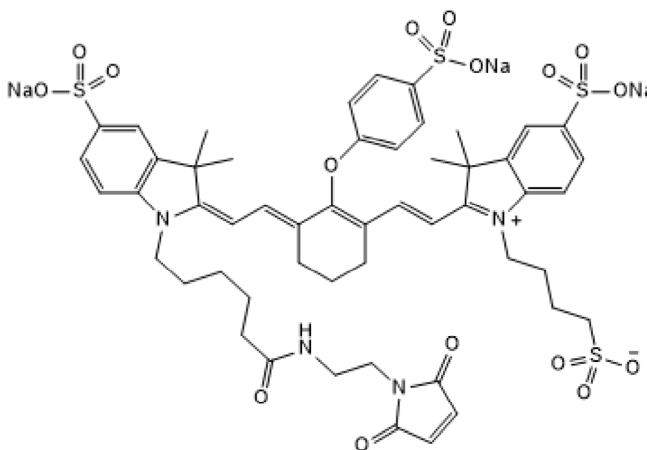
Batch Molecular Formula: C₅₂H₅₇N₄Na₃O₁₆S₄

Batch Molecular Weight: 1191.25

Physical Appearance: Dark green solid

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 97.0% purity

Mass Spectrum: Consistent with structure

UV Spectrum: Consistent with structure

λ_{max}: 775 nm (RPM-00056)

λ_{ex}: 781 nm (RPM-00056)

λ_{em}: 800 nm (RPM-00056)

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

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Description:

Key information: IRDye® 800CW, Maleimide is a near-infrared (NIR) fluorescent dye, supplied with a maleimide reactive group for conjugation (thiol reactivity). Suitable for live cell imaging. Application: Fluorescence microscopy. Properties and Photophysical Data: Excitation and emission maxima (λ) are 773 nm and 792 nm, respectively. Please see the product protocol for further information and a guide to protein/antibody labeling. It is recommended to dissolve this dye in water or DMSO (10 - 20 mg/mL) Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

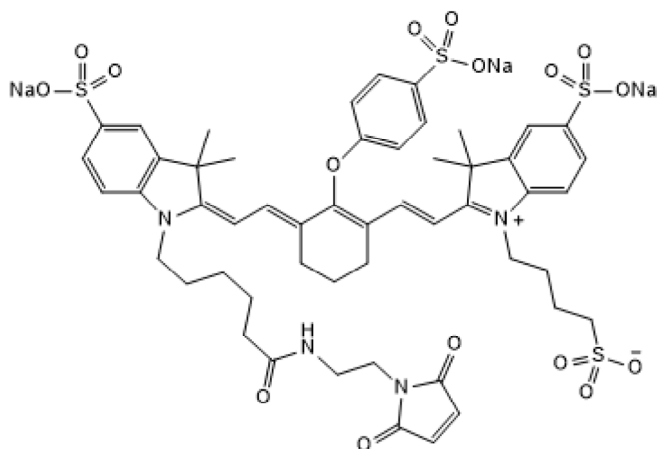
Batch Molecular Formula: C₅₂H₅₇N₄Na₃O₁₆S₄

Batch Molecular Weight: 1191.25

Physical Appearance: Dark green solid

Minimum Purity: ≥80%

Batch Molecular Structure:



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.

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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