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## **Certificate of Analysis**

## www.tocris.com

## Product Name: IRDye<sup>®</sup> 800CW, NHS ester

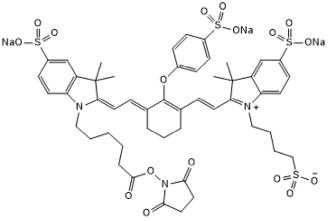
## Catalog No.: 8881 Batch No.: 1

CAS Number: IUPAC Name: 956579-01-4

Sodium 2-((*E*)-2-((*E*)-3-(2-((*E*)-1-(6-((2,5-Dioxopyrrolidin-1-yl)oxy)-6-oxohexyl)-3,3-dimethyl-5-sulfonatoindolin-2ylidene)ethylidene)-2-(4-sulfonatophenoxy)cyclohex-1-en-1-yl)vinyl)-3,3-dimethyl-1-(4-sulfonatobutyl)-3*H*-indol-1ium-5-sulfonate

## 1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	$C_{50}H_{54}N_3Na_3O_{17}S_4$
Batch Molecular Weight:	1166.2
Physical Appearance:	Dark green solid
Storage:	Store at -20°C
Batch Molecular Structure:	0



### 2. ANALYTICAL DATA

HPLC: Mass Spectrum: UV Spectrum:  $\lambda_{max}$ :  $\lambda_{ex}$ :  $\lambda_{em}$ : Shows 88% purity Consistent with structure Consistent with structure 775 nm (0.01M PBS pH 7.4) 777 nm (0.01M PBS pH 7.4) 800 nm (0.01M PBS pH 7.4)

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

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## **Product Information**

Batch No.: 1

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CAS Number: 956579-01-4

IUPAC Name: Sodium 2-((*E*)-2-((*E*)-3-(2-((*E*)-1-(6-((2,5-Dioxopyrrolidin-1-yl)oxy)-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

#### **Description:**

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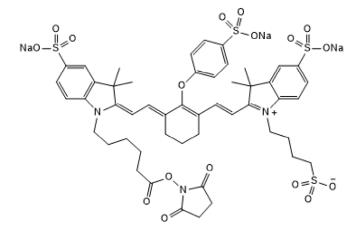
Key information: IRDye<sup>®</sup> 800CW, NHS ester is a near-infrared (NIR) fluorescent dye, supplied with an NHS ester reactive group for the labeling of primary amines. Application: Fluorescence microscopy. Properties and Photophysical Data: Excitation and emission maxima ( $\lambda$ ) are 773 nm and 792 nm, respectively. Please see the

#### **Physical and Chemical Properties:**

Batch Molecular Formula:  $C_{50}H_{54}N_3Na_3O_{17}S_4$ Batch Molecular Weight: 1166.2 Physical Appearance: Dark green solid

#### Minimum Purity: ≥80%

#### **Batch Molecular Structure:**



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

Catalog No.: 8881

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.

#### **References:**

Sever et al (2025) Detection properties of indium-111 and IRDye800CW for intraoperative molecular imaging use across tissue phantom models. J.Biomed.Opt. *S13705* 30. PMID: 39310036.

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