

**Product Name:** IRDye<sup>®</sup> 800CW, DBCO

**Catalog No.:** 8879

**Batch No.:** 1

CAS Number: 1373928-39-2

**1. PHYSICAL AND CHEMICAL PROPERTIES**

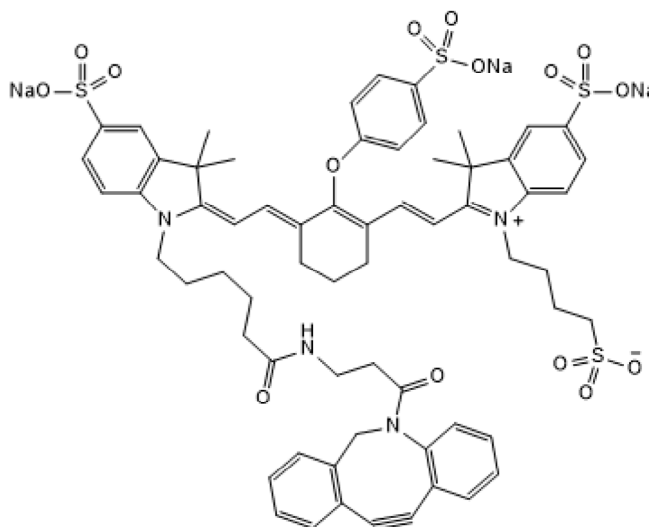
**Batch Molecular Formula:** C<sub>64</sub>H<sub>65</sub>N<sub>4</sub>Na<sub>3</sub>O<sub>15</sub>S<sub>4</sub>

**Batch Molecular Weight:** 1327.45

**Physical Appearance:** Dark green solid

**Storage:** Store at -20°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 97% purity

**Mass Spectrum:** Consistent with structure

**UV Spectrum:** Consistent with structure

**λ<sub>max</sub>:** 775 nm (0.01M PBS pH 7.4)

**λ<sub>ex</sub>:** 787 nm (0.01M PBS pH 7.4)

**λ<sub>em</sub>:** 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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CAS Number: 1373928-39-2

**Description:**

Key information: IRDye® 800CW, DBCO is a near-infrared (NIR) fluorescent dye, supplied with a DBCO reactive group for conjugation. DBCO reactive group can react with azide-tagged molecules or biomolecules via copper-free click chemistry. Application: Fluorescence microscopy. Properties and Photophysical Data: Excitation and emission maxima ( $\lambda$ ) are 778 nm and 794 nm, respectively. It is recommended to dissolve this dye in water or DMSO (10 - 20 mg/mL)

**Physical and Chemical Properties:**

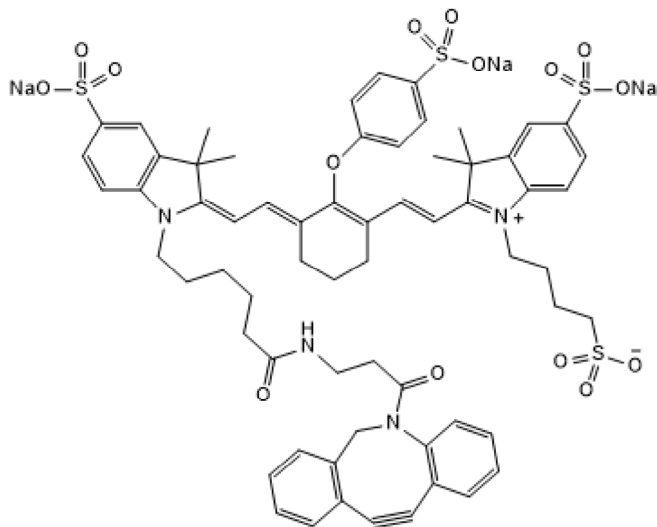
Batch Molecular Formula: C<sub>64</sub>H<sub>65</sub>N<sub>4</sub>Na<sub>3</sub>O<sub>15</sub>S<sub>4</sub>

Batch Molecular Weight: 1327.45

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.

**References:**

**Khoroshkin et al (2024)** A systematic search for RNA structural switches across the human transcriptome. *Nat.Methods* **21** 1634. PMID: 39014073.

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