



# **Certificate of Analysis**

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Product Name: FNIR-Tag, NHS ester Catalog No.: 7373 Batch No.: 1

CAS Number: 2365033-54-9

methoxyethoxy)ethoxy)ethoyl)-3,3-dimethyl-5-sulfonatoindolin-2-ylidene)ethylidene)cyclohex-1-en-1-yl)vinyl)-1-(2-(2-

(2-methoxyethoxy)ethoxy)ethyl)-3,3-dimethyl-3H-indol-1-ium-5-sulfonate

# 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:**  $C_{57}H_{80}N_4O_{17}S_2$ 

Batch Molecular Weight: 1157.4

Physical Appearance: Dark green solid

Solubility: DMSO to 10 mM

DMF to 10 mM

Storage: Store at -20°C

**Batch Molecular Structure:** 

### 2. ANALYTICAL DATA

HPLC: Shows 86.5% purity at 770 nm

 $^1$ H NMR:Consistent with structureMass Spectrum:Consistent with structureUV Spectrum:Consistent with structure $\lambda_{max}$ :765 nm (PBS pH7.4) $\lambda_{ex}$ :768 nm (PBS pH7.4) $\lambda_{em}$ :788 nm (PBS pH7.4)

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



# **Product Information**

Print Date: Sep 12th 2024

1

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(2-methoxyethoxy)ethoxy)ethyl)-3,3-dimethyl-3*H*-indol-1-ium-5-sulfonate

#### **Description:**

Key information: FNIR-Tag, NHS ester is a near-infrared fluorescent dye; supplied with an NHS ester reactive group for the labeling of primary amines with a high degree of labeling (DOL). Application: Designed for in vivo imaging. Also suitable for flow cytometry. Properties and Photophysical Data: FNIR-Tag, NHS ester provides a higher degree of labeling (DOL) with less aggregation than a leading competitor product when used for antibody conjugation. FNIR-Tag, NHS ester- antibody conjugates exhibit reduced liver uptake in vivo compared with leading competitor conjugates. In addition, FNIR-Tag, NHS ester conjugates are significantly brighter... Please see product specific page on www.tocris.com for full description.

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

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Batch Molecular Weight: 1157.4

Physical Appearance: Dark green solid

**Minimum Purity:** ≥70%

# **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.

Catalog No.: 7373

## Solubility & Usage Info:

DMSO to 10 mM DMF to 10 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 45-60°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.

#### **Licensing Information:**

Sold under license from the National Institute of Health

#### References:

Luciano et al (2019) A nonaggregating heptamethine cyanine for building brighter labeled biomolecules. ACS Chem.Biol. 14 934. PMID: 31030512.

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