

Product Name: SCOTfluor 510, fluoro

Catalog No.: 7446

Batch No.: 1

CAS Number: 2351940-09-3

IUPAC Name: 4-Fluoro-7-nitro-2,1,3-benzoselenadiazole

1. PHYSICAL AND CHEMICAL PROPERTIES

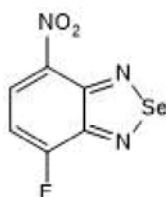
Batch Molecular Formula: C₆H₂FN₃O₂Se

Batch Molecular Weight: 246.06

Physical Appearance: Yellow solid

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.1% purity at 337 nm

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

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

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CAS Number: 2351940-09-3

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Description:

SCOTfluor 510, fluoro is a precursor that, upon reaction with amine groups, can be used for the synthesis of fluorescent probes. Can be used to generate functionalized lactic acid, glucose and ceramide fluorescent probes for real-time, in situ imaging of small molecule metabolites in vivo and in live cells. Fluorescent adduct excitation maximum = 510 nm; emission maximum = 606 nm.

Physical and Chemical Properties:

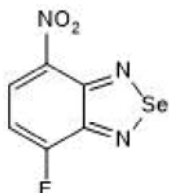
Batch Molecular Formula: C₆H₂FN₃O₂Se

Batch Molecular Weight: 246.06

Physical Appearance: Yellow solid

Minimum Purity: ≥90%

Batch Molecular Structure:



References:

Benson et al (2019) SCOTfluors: small, conjugatable, orthogonal, and tunable fluorophores for in vivo imaging of cell metabolism. *Angew.Chem.Int.Ed.Engl.* **58** 6911. PMID: 30924239.

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. 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.

Licensing Information:

Sold under license from the University of Edinburgh

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