

Product Name: SCOTfluor glucose probe 510

Catalog No.: 7447

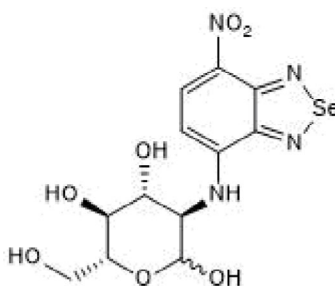
Batch No.: 1

CAS Number: 2490298-72-9

IUPAC Name: 2-Deoxy-2-[(7-nitro-2,1,3-benzoselenadiazol-4-yl)amino]-D-glucose

## 1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C <sub>12</sub> H <sub>14</sub> N <sub>4</sub> O <sub>7</sub> Se
Batch Molecular Weight:	405.23
Physical Appearance:	Red solid
Solubility:	DMSO to 10 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



## 2. ANALYTICAL DATA

HPLC:	Shows 98.7% purity at 493 nm
<sup>1</sup> H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
λ <sub>max</sub> :	490 nm (MeOH)
λ <sub>ex</sub> :	490 nm (MeOH)
λ <sub>em</sub> :	602 nm (MeOH)

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

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**1**

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**Description:**

SCOTfluor glucose probe 510 is a fluorescent probe for visualizing glucose uptake *in vivo*. It can be multiplexed with BFP and GFP. Excitation and emission maxima ( $\lambda$ ) are 490 and 605 nm, respectively.

**Physical and Chemical Properties:**

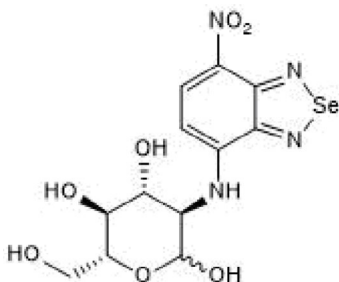
Batch Molecular Formula: C<sub>12</sub>H<sub>14</sub>N<sub>4</sub>O<sub>7</sub>Se

Batch Molecular Weight: 405.23

Physical Appearance: Red solid

**Minimum Purity:** ≥98%

**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.

**Solubility & Usage Info:**

DMSO 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 University of Edinburgh

**References:**

**Benson *et al*** (2021) Photoactivatable metabolic warheads enable precise and safe ablation of target cells *in vivo*. *Nat.Commun.* **12** 2369. PMID: 33888691.

**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.

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