

Certificate of Analysis

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Product Name: SCOTfluor glucose probe 510

Catalog No.: 7447

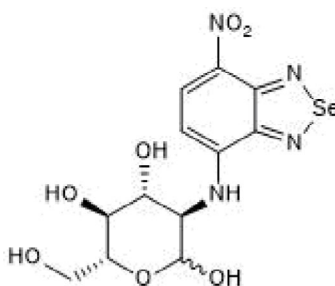
Batch No.: 1

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 ₁₂ H ₁₄ N ₄ O ₇ 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 98.6% purity at 493 nm
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure
λ_{max}:	490 nm (MeOH)
λ_{ex}:	490 nm (MeOH)
λ_{em}:	602 nm (MeOH)

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

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Product Information

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

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 (λ) are 490 and 605 nm, respectively.

Physical and Chemical Properties:

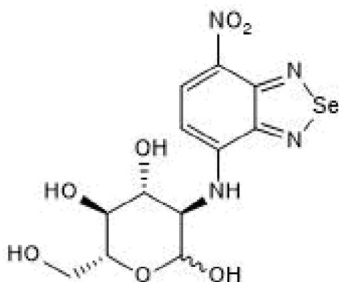
Batch Molecular Formula: C₁₂H₁₄N₄O₇Se

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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