

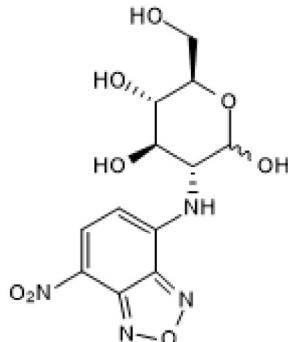
Certificate of Analysis

www.tocris.com**Product Name:** 2-NBDG**Catalog No.:** 6065**Batch No.:** 4

CAS Number: 186689-07-6

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₂H₁₄N₄O₈**Batch Molecular Weight:** 342.26**Physical Appearance:** Orange solid**Solubility:** DMSO to 100 mM**Storage:** Store at -20°C**Batch Molecular Structure:**

2. ANALYTICAL DATA

HPLC: Shows 99.0% purity at 468 nm**λ_{max}:** 467 nm (MeOH)**λ_{em}:** 524 nm (MeOH)

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

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Product Information

www.tocris.com**Product Name:** 2-NBDG

CAS Number: 186689-07-6

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

Catalog No.: 6065**Batch No.:** 4**Description:**

2-NBDG is a fluorescent glucose analog for visualizing glucose uptake into living cells.

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.

Physical and Chemical Properties:Batch Molecular Formula: C₁₂H₁₄N₄O₈

Batch Molecular Weight: 342.26

Physical Appearance: Orange solid

Minimum Purity: ≥97%**Solubility & Usage Info:**

DMSO to 100 mM

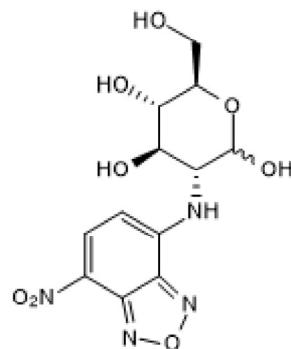
Stability and Solubility Advice:

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.

Batch Molecular Structure:**References:**

Yamada et al (2007) A real-time method of imaging glucose uptake in single, living mammalian cells. *Nat.Protoc.* **2** 753. PMID: 17406637.

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