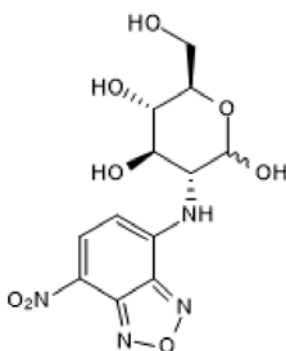


Product Name: 2-NBDG
CAS Number: 186689-07-6
IUPAC Name: 2-Deoxy-2-[(7-nitro-2,1,3-benzoxadiazol-4-yl)amino]-D-glucose

Catalog No.: 6065 **Batch No.:** 3

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
UV Spectrum: Supplier's data
λ_{max}: 468 nm (MeOH)
λ_{em}: 524 nm (MeOH)

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

Product Name: 2-NBDG

Catalog No.: 6065

Batch No.: 3

CAS Number: 186689-07-6

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

Description:

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

Physical and Chemical Properties:

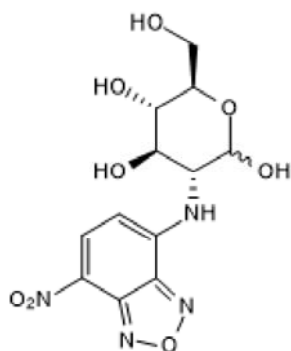
Batch Molecular Formula: C₁₂H₁₄N₄O₈

Batch Molecular Weight: 342.26

Physical Appearance: Orange solid

Minimum Purity: ≥97%

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 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. 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.

References:

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

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956