

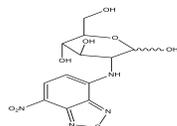
Product: 2-NBDG

ALTERNATE NAME: 2-deoxy-2-[(7-nitro-2,1,3-benzoxadiazol-4-yl)amino]-D-glucose; NBD-Glucose

CATALOG #: 2760-1,5

AMOUNT: 1 mg, 5 mg

STRUCTURE:



MOLECULAR FORMULA: C₁₂H₁₄N₄O₈

MOLECULAR WEIGHT: 342.30

CAS NUMBER: 186689-07-6

APPEARANCE: Off-white solid

SOLUBILITY: DMSO (~ 10 mg/ml) or EtOH (~20 mg/ml)

PURITY: ≥98% by HPLC (a mixture of α & β isomers)

STORAGE: Store at -20 °C. Protect from light and moisture

DESCRIPTION: 2-NBDG is a fluorescently-labeled deoxyglucose analog that is used primarily to directly monitor glucose uptake by living cells and tissues. 2-NBDG can be used in real-time confocal, high-resolution, or wide-field fluorescence microscopy as well as in flow cytometry.

REFERENCE: Zou, C., *et al.* (2005). *J. Biochem. Biophys. Methods* **64**, 207-215.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

Glucose uptake colorimetric assay kit (**Cat. No. K676-100**)

Glucose uptake fluorometric assay kit (**Cat. No. K666-100**)

FOR RESEARCH USE ONLY! Not to be used on humans.