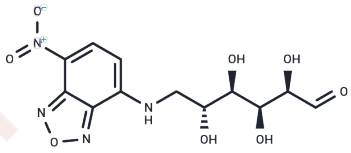
Data Sheet (Cat.No.T64361)

TargetMol

6-NBDG

Chemical Properties



CAS No. : 108708-22-1

Formula: C12H14N4O8

Molecular Weight: 342.26

Storage: Store at low temperature,Keep away from direct sunlight
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	6-NBDG, a fluorescent glucose analogue, can be used as a fluorescent probe.6-NBDG can be used for monitoring glucose transport and uptake. 6-NBDG can be used as for detecting macrophage-rich atherosclerotic plaques.
Targets(IC50)	Others
In vitro	Procedure 1. Mix the sample with RPMI without glucose, containing a final concentration of 200 μM 6-NBDG. 2. Use curved tweezers to embed the sample in the mixture and stretch the sample through a drop of agarose (40°C, 20 μL) placed on a preheated (40°C) glass slide. 3. Gently place another preheated glass slide on top of the sample so that the entire sample is embedded in the agarose-6-NBDG mixture. 4 Take confocal images using a confocal laser scanning microscope (Ex: 471 nm, Em: 500-600 nm). The above information is based on published literature. Experimental procedures should be appropriately modified to meet specific research demands.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9218 mL	14.6088 mL	29.2176 mL
5 mM	0.5844 mL	2.9218 mL	5.8435 mL
10 mM	0.2922 mL	1.4609 mL	2.9218 mL
50 mM	0.0584 mL	0.2922 mL	0.5844 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Zaman RT, et al. Fiber-optic system for dual-modality imaging of glucose probes 18F-FDG and 6-NBDG in atherosclerotic plaques. PLoS One. 2014 Sep 18;9(9):e108108.
Zaman RT, et al. Fiber-optic system for dual-modality imaging of glucose probes 18F-FDG and 6-NBDG in atherosclerotic plaques. PLoS One. 2014 Sep 18;9(9):e108108.