

2-NBDG, Glucose uptake probe

Catalog	Unit
TBI1459-1MG	1 mg
TBI1459-5MG	5 mg

Product Details

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

Alternate Names: 2-NBD-Glucose

Molecular Formula: C₁₂H₁₄N₄O₈

Formula Weight: 342.27

CAS Number: 186689-07-6

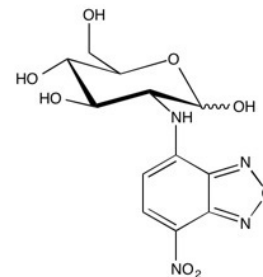
Purity: >98%

Formulation: Powder

Solubility: Soluble in DMSO (up to 10 mg/ml).

Storage: -20°C / protect from light

Stability: ≥ 1 year.



Applications

Glucose uptake probe

Functions

2-NBDG (186689-07-6) is a fluorescent glucose uptake probe. May be used to monitor glucose uptake in live cells and as a cell viability indicator. Has been used to measure glucose uptake in cultured hippocampal astrocytes using confocal epifluorescence microscopy. NBD fluorescence typically displays excitation/emission maxima of 465/540 nm. Cell permeable.

Application Procedures

First dissolved in DMSO (up to 10 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 1 month.

Relative Products

TBI1170	Mitomycin C
TBI1345	E64, Cysteine protease inhibitor
TBI1347	E64d, Cysteine protease inhibitor
TBI2064	Chromomycin A3
TBI2069	Cytochalasin B
TBI2794	5-EDU, DNA Click labeling probe
TBI2071	Cytochalasin D
TBI1286	Bestatin, Aminopeptidase inhibitor
TBI2140	Gemcitabine
TBI2058	Aphidicolin, DNA polymerase Inhibitor

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