

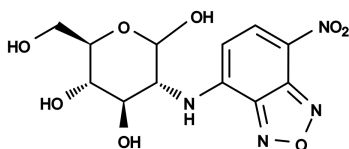
**2-NBDG [2-(N-(7-Nitrobenz-2-oxa-1,3-diazol-4-yl)Amino)-2-Deoxyglucose] \*CAS#: 186689-07-6\***Catalog number: 36702  
Unit size: 5 mg**Product Details**

Storage Conditions	Freeze (<-15 °C), Minimize light exposure
Expiration Date	24 months upon receiving

**Chemical Properties**

Appearance	Orange solid
Molecular Weight	342.26
Soluble In	DMSO

## Chemical Structure

**Spectral Properties**

Excitation Wavelength	467 nm
Emission Wavelength	538 nm

**Applications**

2-NBDG is a fluorescently-labeled deoxyglucose analog that is used primarily to directly monitor glucose uptake by living cells and tissues. It is also used as a topical contrast reagent for the detection of neoplasia. 2-NBDG can be used in real-time confocal, high-resolution, or wide-field fluorescence microscopy as well as in flow cytometry. The probe can be excited by the Argon laser at 488 nm to give the environment-sensitive fluorescence. It has lower photostability than the rhodamine-based fluorescent probes.