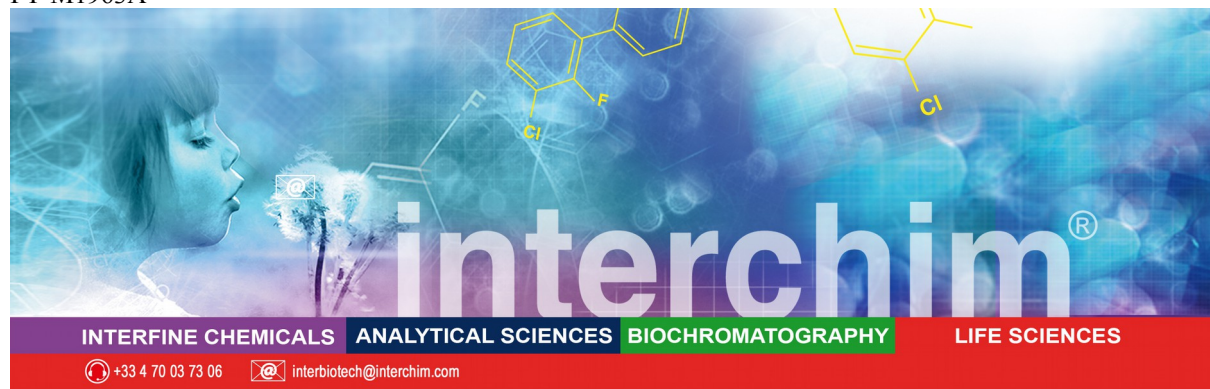


FT-M1963A

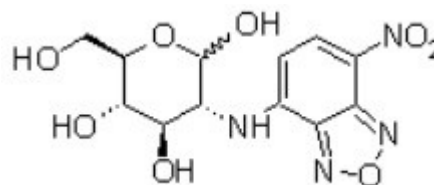


2-NBDG

A Cell Viability Indicator, Environmental sensitive Fluorescent glucose analog for directly monitoring glucose uptake by living cells and tissues

Product Description

Name :	2-NBDG
Catalog Number :	FP-M1963A, 5mg
	CAS [186689-07-6]
Molecular Weight :	MW= 342.26
Solubility:	DMSO
Absorption / Emission :	$\lambda_{exc} \lambda_{em}$ (MeOH) = 485/540 nm



Storage: -20°C Protect from light and moisture

Introduction

This product 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.

Directions for use

Guidelines for use

Protocol may be found in the literature.

References

- **Chatterjee S. et al.**, Reducing CD73 Expression by IL1 β -Programmed Th17 Cells Improves Immunotherapeutic Control of Tumors, *Cancer Res.*, 74: 6048 - 6059 (2014) [Abstract](#)
- **Kesarwani P. et al.**, Promoting Thiol Expression Increases the Durability of Antitumor T-cell Functions, *Cancer Res.*, 74: 6036 - 6047 (2014) [Abstract](#)
- **Osorio-Fuentealba C. et al.**, Novel mechanisms to ATP-dependent glucose uptake in skeletal muscle cells, *FASEB J*, 26: lb715 (2012)

Technical and scientific information

Related products

- 6-NBDG, FP-R1334A

Ordering information

Catalog size quantities and prices may be found at <http://www.interchim.com>.
Please inquire for higher quantities (availability, shipment conditions).

For any information, please ask : FluoProbes® / Interchim; Hotline : +33(0)4 70 03 73 06

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