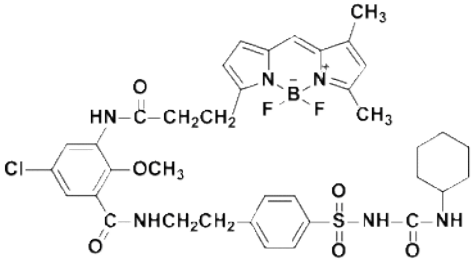
FT-BJ097A

ER Green Tracker for live-cell, Glibenclamide-FL

Fluorescent Endoplasmic Reticulum (ER) Probe

Product Description

Name :	**ER Green Tracker**
Catalog Number :	FP-BJ097A, 100µg
Molecular Weight :	MW= 783.09
Solubility:	DMSO, DMF, Chloroform and Methanol
Absorption / Emission :	$\lambda_{exc}\backslash\lambda_{em}$ (MeOH) = 504/511 nm
Molecular Form :	$C_{37}H_{42}BClF_2N_6O_6S$
EC (M^{-1} cm^{-1}) **:**	86 000



Storage: -20°C Protect from light and moisture

Introduction

The ER Green Tracker, FL Glibenclamide, is cell-permeant, live-cell stain that is selective for the endoplasmic reticulum (ER). Glibenclamide (glyburide) binds to the sulphonylurea receptors of ATP-sensitive K+ channels which are prominent on ER.

Directions for use

Reagent Preparation

ER Green Tracker is supplied as 100 µg of lyophilized material. Prepare a 1 mM stock solution by dissolving the contents of the vial in 128 µL of DMSO. It is recommended that the 1 mM solution then be separated into aliquots and stored frozen with desiccant.

Cell Preparation and Staining

1.1 Prepare staining solution. Dilute the 1 mM stock solution to the final working concentration. We recommend working concentrations of ~1 µM. To minimize potential labeling artifacts, use the lowest dye concentrations possible. Best results are obtained when staining is performed in Hank's Balanced Salt Solution with calcium and magnesium (HBSS/Ca/Mg, cat. # NJI030) at 37˚C/5% CO_2.

1.2 Stain the cells. For adherent cells, remove the medium from the culture dish, rinse with HBSS, and add prewarmed staining solution. Incubate the cells for approximately 15–30 minutes at 37˚C. Replace the staining solution with fresh probe-free medium and view the cells using a fluorescence microscope. If the stained cells are to be fixed, refer to the fixation steps below for the appropriate dye.

Fixation

2.1 Fix cells. If stained cells are to be fixed, fixation is recommended using 4% formaldehyde for 2 minutes at 37˚C.
2.2 Wash and view cells. After fixation, perform two 5-minute washes in any suitable buffer prior to mounting, viewing, or further staining. Permeabilization is not recommended; signal is not retained after permeabilization with Triton® X-100.

References

- **Lee Jae Hong** *et al.*, An intramolecular crossed-benzoin reaction based KCN fluorescent probe in aqueous and biological environments, Chemical Communications, Issue 36 (2015)
- **Nakanishi K**. *et al.*, Transient Ca2+ depletion from the endoplasmic reticulum is critical for skeletal myoblast differentiation, *The FASEB Journal,* vol. 29 no. 5 2137-2149 (2015)

Technical and scientific information

Related products

- $DiOC_6(3)$, FP-467646
- ER Red Tracker for live-cell, Glibenclamide-TR, FP-BJ0981

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