

FT-BJ0981



ER Red Tracker for live-cell

Product Description

Product name cat.number	$\lambda_{exc}/\lambda_{em. max.}$ (nm)	Comments
ER Red Tracker for live-cell, BrDIPY TR-Glibenclamide FP-BJ0981, 100 µg	588 / 615	Formula: C ₄₄ H ₄₂ BClF ₂ N ₆ O ₇ S ₂ MW: 915,23 Da

Storage: Freeze: Store at -5 to -30°C. Protect from moisture and from light

Introduction

ER Red Tracker is a cell-permeant fluorescent probe designed for live-cell imaging. It selectively localizes to the endoplasmic reticulum (ER) of living cells. The probe is based on Glibenclamide, a known selective inhibitor of ATP-dependent potassium channels, which are abundant on the ER membrane.

This compound serves dual purposes:

- As a selective ER stain
- As a probe for sulfonylurea receptors associated with ATP-dependent potassium channels

ER Red Tracker (BrDIPY TR-Glibenclamide) emits a bright orange fluorescence, is optimally excited at 588 nm, and emits near 615 nm. It is relatively insensitive to environmental and pH changes, making it ideal for consistent imaging conditions.

Directions for use

Guidelines for use

Protocol may be found in the literature.

References

- Aryal S. *et al.*, ER-GCaMP6f: An Endoplasmic Reticulum-Targeted Genetic Probe to Measure Calcium Activity in Astrocytic Processes, *Anal. Chem.*, 94, 4, 2099–2108 (2022) [Article](#)
- Benhamou R. *et al.*, Fluorescent Tracking of the Endoplasmic Reticulum in Live Pathogenic Fungal Cells, *ACS Chem. Biol.*, 13, 12, 3325–3332 (2018) [Article](#)
- Engel A. *et al.*, Codon Bias Can Determine Sorting of a Potassium Channel Protein, *Cells*, 10(5), 1128 (2021) [Article](#)

Technical and scientific information

Related products

- ER Red FM Tracker for flow cytometry, FP-BU0ME0
- MitoTracer Orange CMTMRos, FP-67256A
- DiOC18(3), FP-468059
- JC-1 Mitochondrial Membrane Potential Probe, FP-AM304A



Ordering information

[Catalog size quantities and prices may be found at www.interchim.com/](http://www.interchim.com/)

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