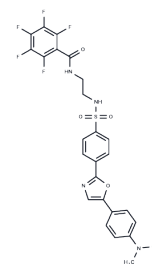


ER-Tracker Blue-White DPX

Chemical Properties

CAS No. :	287715-95-1
Formula:	C ₂₆ H ₂₁ F ₅ N ₄ O ₄ S
Molecular Weight:	580.53
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	ER-Tracker dye, a derivative of BODIPY series dyes coupled with Glibenclamide, exhibits high selectivity for the endoplasmic reticulum and is non-toxic to cells at low concentrations. This environmentally sensitive probe retains part of its fluorescence after formaldehyde treatment and features high fluorescence life and a good extinction coefficient. Glibenclamide, an ATP-dependent K ⁺ channel blocker (Kir6, KATP) and CFTR Cl-channel blocker, binds in the endoplasmic reticulum. However, ER-Tracker is not suitable for staining cells after fixation [1].
Targets(IC50)	Others
In vitro	<p>ER-Tracker solution preparation involves first creating a storage solution by diluting 100 µg of ER-Tracker with 172 µL of anhydrous DMSO to obtain a 1 mM stock solution. The storage solution should be aliquoted and stored at -20°C or -80°C, protected from light. Next, prepare the working solution by diluting the stock solution with pre-warmed serum-free cell culture medium or PBS to concentrations between 100 nM and 1 µM, adjusting the concentration based on specific requirements, and using it immediately after preparation.</p> <p>For staining suspension cells, centrifuge to collect the cells and wash twice with PBS, five minutes each time, maintaining a cell density of 1×10⁶/mL. Add 1 mL of ER-Tracker working solution and incubate at room temperature for 5-30 minutes. Centrifuge at 400 g for 3-4 minutes, discard the supernatant, and wash the cells twice with PBS for five minutes each. Resuspend cells in 1 mL serum-free medium or PBS, then observe using a fluorescence microscope or flow cytometer.</p> <p>For staining adherent cells, culture on sterile coverslips, remove coverslips from the medium, and aspirate excess medium. Add 100 µL of dye working solution, gently agitate to cover cells completely, and incubate for 5-30 minutes. Aspirate the working solution and wash 2-3 times with medium for five minutes each, observing with a fluorescence microscope. For flow cytometry analysis, cells need to be detached with trypsin, resuspended, and then stained.</p> <p>The above information is based on published literature. Experimental procedures should be appropriately modified to meet specific research demands.</p>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7226 mL	8.6128 mL	17.2256 mL
5 mM	0.3445 mL	1.7226 mL	3.4451 mL
10 mM	0.1723 mL	0.8613 mL	1.7226 mL
50 mM	0.0345 mL	0.1723 mL	0.3445 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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