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Kit Catalog number: 96-0397

Active Ingredient:

2-{4,5-Bis[(6-(2-ethoxy-2-oxoethoxy)-2-methylquinolin-8-ylamino) methyll-6-hydoxy-3-oxo-3H-xanthen-9-yl}benzoic acid FL2A

Catalog number - 07-0287

Introduction:

The copper complex of **FL2A** is a novel, cell-trappable fluorescent NO probe, that allows direct imaging of nitric oxide produced in living cells through fluorescence turn on. The **FL2A** ligand is trapped in the cell. A solution of the copper (II) complex of **FL2A** can be readily prepared using this kit.

For additional information, consult the following references:

1. Inorg. Chem., 2010, 49, 7464.

2. PNAS, 2010, 107, 8525.

Contents:

Ligand FL2A: 5 x 0.5mg

Dimethylsulfoxide (ACS spectrophotometric grade): 5 x 1.0ml Copper (II) chloride (1.0 mM solution in water): 5 x 1.0ml

MSDS:

The Material Safety Data Sheets for the three products contained in this kit can be downloaded from the Strem Chemicals Web Site at www.strem.com. Locate the MSDS using the following catalog numbers:

FL2A: 07-0291

Dimethylsulfoxide (ACS spectrophotometric grade): 97-4940 Copper (II) chloride as a 1.0 mM solution in water: 97-3060

Storage conditions:

The kit should be stored at -20°C and protected from light.

Preparation of the active copper complex of FL2A:

Step I

Allow the kit to warm to room temperature. Add 589 microliters of DMSO to a 0.5mg vial of **FL2A** (resulting concentration - 1.0 mM). The **FL2A** is readily soluble in the DMSO. The solution can be partitioned into aliquots of 40-300 μ L as required. These solutions must be stored in the freezer at <-20°C. The DMSO solution of **FL2A** is stable for three months at -80°C. It is advisable to check the extinction coefficient of the solution before preparing the copper complex. (log ε (499 nm) = 4.66)

Step II

A CuFL2A solution should be freshly prepared by adding 1:2 FL2A solution (1.0 mM) to the copper (II) solution (1.0 mM) at room temperature.

Note: The prepared DMSO/water stock solution of CuFL2A solution [log ε (495 nm) = 4.19] can be kept at room temperature, but should be protected from light. The solution can be diluted with media to provide the concentration required for cell sensing experiments. When the extinction coefficient of the red solution of CuFL2A diminishes by 20% of the original value, the solution should be discarded. Do not use the solution after 1 hour, and do not freeze the solution.

Visit www.strem.com for new product information and searchable catalog.

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