Nitric Oxide Sensor (Extracellular) Kit ("NO-ON") (FL2A) (Cell-impermeable NO fluorescent probe)

metals • inorganics • organometallics • catalysts • ligands • custom synthesis • cGMP facilities • nanomaterials Kit Catalog number: 96-0397	
	Catalog number - 07-0287 $(+)_{H_3C} + (+)_{H_3C} + (+)_$
Introduction:	The copper complex of FL2A is a novel, cell-impermeable fluorescent NO probe, that allows direct imaging of nitric oxide produced through fluorescence turn on. A solution of the copper (II) complex of FL2A can be readily prepared using this kit. For additional information, consult the following references: 1. <i>Inorg. Chem.</i> , 2010 , <i>49</i> , 7464. 2. <i>PNAS</i> , 2010 , <i>107</i> , 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 <u>www.strem.com</u> , 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 μL 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)

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Nitric Oxide Sensor (Intracellular) Kit ("NO-ON") (FL) (Cell-permeable NO fluorescent probe)

er: 96-0293thloro-6-hydroxy-5-[2-methylquinolin-8-ylamino)methyl]- (3H- xanthen-9-yl]benzoic acid (FL) $ = \int_{H_3} \int_{-K_1} $
3H- xanthen-9-yl}benzoic acid (FL) alog number - 07-0293 $\begin{aligned} & \downarrow $
$\begin{array}{l} HO + (+)$
ed in living cells through fluorescence turn on. The probe is best suitable for immediate intracellular detection of NO. g of the cells with CuFL be performed at the latest one hour after incubation. ion of the copper (II) complex of FL can be readily prepared using this kit. For additional information, consult the ng references: <i>ure Chemical Biology</i> , 2006 , <i>2</i> , 375. <i>ure Protocols</i> , 2007 , <i>2</i> , 408. <i>m. Chem. Soc.</i> , 2006 , <i>128</i> , 14364. FL : 5 x 0.5mg
r (II) chloride (1.0 mM solution in water): 5 x 1.0ml
aterial Safety Data Sheets for the three products contained in this kit can be downloaded from the Strem Chemicals ite at <u>www.strem.com.</u> Locate the MSDS using the following catalog numbers: 0293 ylsulfoxide (ACS spectrophotometric grade): 97-4940 r (II) chloride as a 1.0 mM solution in water: 97-3060
should be stored at -20°C and protected from light.
he kit to warm to room temperature. Add 931 microliters of DMSO to a 0.5mg vial of FL (resulting concentration - 1). The FL is readily soluble in the DMSO. The solution can be partitioned into aliquots of 40-300 µL as required. solutions must be stored in the freezer at <-20°C. The DMSO solution of FL is stable for three months at -80°C. visable to check the extinction coefficient of the solution before preparing the copper complex. 504 nm) = 4.62) L soluton should be freshly prepared by adding 1:1 FL solution (1.0 mM) to the copper (II) solution (1.0 mM) at room ature. The prepared DMSO/water stock solution of Cu FL solution [log ε (499 nm) = 4.60] can be kept at room temperature, build be protected from light. The solution can be diluted with media to provide the concentration required for cell g experiments. When the extinction coefficient of the red solution of Cu FL diminishes by 20% of the original value, ution should be discarded. Do not use the solution after 1 hour, and do not freeze the solution.

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Nitric Oxide Sensor (Intracellular) Kit ("NO-ON") (FL2E) (Cell-trappable NO fluorescent probe)

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Active Ingredient:	2-{4,5-Bis[(6-(2-ethoxy-2-oxoethoxy)-2-methylquinolin-8-ylamino)	
	Catalog number - 07-0291	
Introduction:	The copper complex of FL2E is a novel, cell-trappable fluorescent NO probe, that allows direct imaging of nitric oxide produced in living cells through fluorescence turn on. The FL2E ligand is trapped in the cell. A solution of the copper (II) complex of FL2E can be readily prepared using this kit. For additional information, consult the following references: 1. <i>Inorg. Chem.</i> , 2010 , <i>49</i> , 7464.	
Contents:	Ligand FL2E : 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 <u>www.strem.com</u> . Locate the MSDS using the following catalog numbers: FL2E : 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 FL2E:	Step I Allow the kit to warm to room temperature. Add 571 microliters of DMSO to a 0.5mg vial of FL2E (resulting concentration - 1.0 mM). The FL2E is readily soluble in the DMSO. The solution can be partitioned into aliquots of 40-300 µL as required. These solutions must be stored in the freezer at <-20°C. The DMSO solution of FL2E is stable for three months at -80°C. is advisable to check the extinction coefficient of the solution before preparing the copper complex. (log e(500 nm) = 4.25)	

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