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

Kit Catalog number: 96-0293	
Active Ingredient:	2-{2-Chloro-6-hydroxy-5-[2-methylquinolin-8-ylamino)methyl]- 3-oxo-3H- xanthen-9-yl}benzoic acid (FL)
	Catalog number - 07-0293 $H^{+,V}_{H} + H^{+,V}_{H} + H^{$
Introduction:	 The copper complex of FL is a novel, cell-trappable fluorescent NO probe that allows direct imaging of nitric oxide produce in living cells through fluorescence turn on. A solution of the copper (II) complex of FL can be readily prepared using this kit. For additional information, consult the following references: 1. Nature Chemical Biology, 2006, 2, 375. 2. Nature Protocols, 2007, 2, 408. 3. J. Am. Chem. Soc., 2006, 128, 14364.
Contents:	Ligand FL : 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: FL : 07-0293 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 FL:	Step I Allow the kit to warm to room temperature. Add 931 microliters of DMSO to a 0.5mg vial of FL (resulting concentration - 1.0 mM). The FL 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 FL 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 (504 nm) = 4.62)
	Step II A CuFL soluton should be freshly prepared by adding 1:1 FL solution (1.0 mM) to the copper (II) solution (1.0 mM) at room temperature. Note: The prepared DMSO/water stock solution of CuFL solution [log ɛ(499 nm) = 4.60] 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 CuFL 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.
	unics • organometallics • catalysts • ligands • custom synthesis • cGMP facilities • nanomaterials
Vi	sit www.strem.com for new product information and searchable catalog.

7 Mulliken Way Newburyport, MA 01950-4098 U.S.A. Tel.: (978) 499-1600 Fax: (978) 465-3104 Email: info@strem.com Strem Chemicals, Inc. 15, rue de l'Atome Zone Industrielle 67800 BISCHHEIM France Tel.: (33) 03 88 62 52 60 Fax: (33) 03 88 62 26 81 Email: info.europe@strem.com

Strem Chemicals, Inc. Postfach 1215 77672 KEHL Germany Telefon: 0 78 51/ 7 58 79 Email: info.europe@strem.com Strem Chemicals UK Ltd. An Independent Distributor of Strem Chemicals Products Newton Hall, Town Street Newton, Cambridge CB22 7ZE UK Tel.: 0845 643 7263 Fax: 0845 643 7362 Email: enquiries@strem.co.uk

