

## **Product Data Sheet**

Cas No.:	874748-20-6	Cat. No:	PL09268
Product Name:	Coppersensor 1		
Product synonym:	-		
Chemical name:	Coppersensor 1		
MF:	C30H50BN3F2S4	FW:	629.806
Purity:	≥98%	Batch No.:	-
Storage:			
λmax:	-	Formulation:	-
Solubility :			
SMILES :	[F-][B+3]1(N2=C(C(CC)=C(C)C2=C(CN(CCSCCSCC)CCSCCSCC)C2=C(C)C(CC)=C(C)[N-]12)C)[F-]		
InChl Code:		-	
InChl Key:			
WARNING This product is not for human or veterinary use.			

## **Product Description**

Coppersensor-1 (CS1) 是一种膜透性荧光染料。Coppersensor-1 对 Cu<sup>+</sup> 具有亲和力,其亲和力在皮摩尔范围,对竞争细胞金属离子具有很高的选择性。Coppersensor-1 作为探针,可以选择性、灵敏地检测包括活细胞在内的生物样品中的铜 (I) 离子 (Cu<sup>+</sup>)。Coppersensor-1 可用于 癌症、心血管疾病、神经系统疾病等严重疾病的成像研究。

生物活性	Coppersensor-1 (CS1) is a membrane-permeable fluorescent dye. Coppersensor-1 has a picomolar affinity for Cu with high selectivity over competing cellular metalions. Coppersensor-1 as a probe, can selective and sensitive detection of copper(I) ions (Cu) in biological samples, including live cells. Coppersensor-1 can be used for the research of imaging of severe diseases such as cancer, cardiovascular disorders and neurogenerative diseases.	
体外研究(In Vitro)	<ul> <li>Guidelines (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs).</li> <li>A. Preparation of reagent stock solutions for imaging: <ol> <li>Prepare a 1 mM stock solution of CS1 (MW 630 g/moL) in DMSO by dissolving 0.63 mg of solid CS1 per milliliter of DMSO solvent.</li> <li>Prepare a 10 mM stock solution of CuCl2 (MW 134 g/moL) by dissolving 1.34 mg of solid CuCl2 per milliliter of Millipore water solvent.</li> <li>CS1 labeling of live cells: <ol> <li>Imaging experiments with cells will require 1-2 d with cells in culture. Incubate the cells according to your normal protocol.</li> <li>One day before imaging, cells are passaged and plated on 18-mm glass coverslips coated with poly-L-lysine (50 µg/mL).</li> </ol> </li> </ol></li></ul>	
包装储存	Pure form -20°C 3 years; 4°C 2 years	