

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⁺ 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⁺)。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)	 Guidelines (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs). A. Preparation of reagent stock solutions for imaging: 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. 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. CS1 labeling of live cells: Imaging experiments with cells will require 1-2 d with cells in culture. Incubate the cells according to your normal protocol. One day before imaging, cells are passaged and plated on 18-mm glass coverslips coated with poly-L-lysine (50 µg/mL). 	
包装储存	Pure form -20°C 3 years; 4°C 2 years	