


## Product Data Sheet

Cas No.:	60842-46-8	Cat. No:	PL13154
Product Name:	FITC-Dextran (MW 4000)		
Product synonym:	荧光素异硫氰酸酯-葡聚糖;荧光素异硫氰酸酯-葡萄糖;FITC-葡聚糖;FITC I 葡聚糖 (Mw.=约10,000);FTIC葡聚糖 (Mw.=约10,000)		
Chemical name:	FITC-Dextran (MW 4000)		
MF:	C21H13NO6S.XUNSPECIFIED	FW:	-
Purity:	-	Batch No.:	-
Storage:			
Structural formula:			
λmax:	-	Formulation:	-
Solubility :			
SMILES :	C1=C(O)C=CC2C3(OC(=O)C4=CC=CC=C34)C3=C(C=C(ONC(=O)S)C=C3)OC1=2		
InChI Code:	-		
InChI Key:			
WARNING This product is not for human or veterinary use.			

## Product Description

FITC-Dextran (MW 4000) 是一种异硫氰酸荧光素 (FITC) 葡聚糖荧光探针 (Ex=495 nm; Em=525 nm)。FITC-Dextran (MW 4000) 可作为一种标记物来揭示热休克引起的细胞损伤, 并研究细胞凋亡的早期和晚期阶段。FITC-Dextran (MW 4000) 还可用于细胞渗透性的研究, 如血脑屏障通透性以及血脑屏障破坏程度的测定。

### 生物活性

FITC-Dextran (MW 4000) is a fluorescent probe for fluorescein isothiocyanate (FITC) dextran (Ex=495 nm; Em=525 nm). FITC-Dextran (MW 4000) can be used as a marker to reveal heat shock-induced cell damage and to study the early and late stages of apoptosis. FITC-Dextran (MW 4000) can also be used for cell permeability studies, such as blood-brain barrier permeability and determination of the extent of blood-brain barrier disruption.

体外研究(In Vitro)	<p>Guidelines (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs).</p> <p>Labeling of cells (HeLa cells for example):</p> <ol style="list-style-type: none"><li>1. Suspend the cells in 100 <math>\mu</math>L of medium, and mix in Q-prep tubes with 10 <math>\mu</math>L of propidium iodide (PI), 10 <math>\mu</math>L of FITC-Dextran (MW 4000) (the final concentration of PI and FITC-Dextran (MW 4000) is 7.5 <math>\mu</math>M and 1.13 <math>\mu</math>M, respectively).</li><li>2. Incubate cells for 25 min at room temperature in the dark.</li><li>3. Take the labeled cells with 3 mL of medium and centrifuge for 10 min at 500g.</li><li>4. Take centrifuged cells with 1 mL of medium and use flow cytometry or fluorescence microscopy analyze (PI: Ex=500 nm, Em=600 nm; FITC-Dextran (MW 4000): Ex=495 nm, Em=525 nm).</li></ol>
包装储存	4°C, protect from light In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)
溶解度数据	In Vitro: DMSO : 16.67 mg/mL (Need ultrasonic)H <sub>2</sub> O : 16.67 mg/mL (Need ultrasonic)In Vivo: