Product Data Sheet

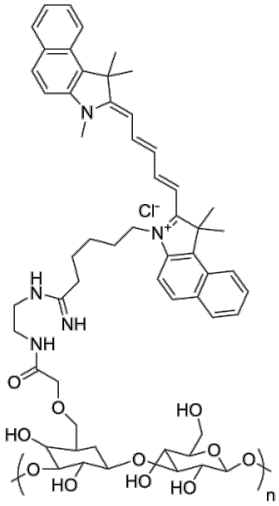
Product Name: Dextran-CY5.5 (MW 40000)
Cat. No.: GC80376

Chemical Properties

Cas. No.			
Formula		M.Wt	40000
Solubility		Storage	Store at -20°C, protect from light, stored under nitrogen

General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

Dextran -CY5.5 (MW 40000) is a CY5.5 labeled Dextran conjugate. CY5.5 is a Cyanine dye (The excitation wavelength is usually 673 nm and the emission wavelength is 707 nm) that can be used for the labeling of proteins, antibodies and small molecular compounds. Dextran has an inhibitory effect

on thrombocyte aggregation and coagulation factors and is used as a plasma volume expander [1].

In Vitro, CY5.5-Dextran has a wide range of applications in biomedical research, such as studying vascular permeability and hemodynamics; labeling cells and then detecting cell migration and distribution using fluorescence microscopy or flow cytometry; serving as a carrier for studying drug distribution and metabolism in vivo; and for fluorescence imaging of tumor angiogenesis and metastasis.

References:
[1]. Vera DR, et al. Cy5.5-DTPA-galactosyl-dextran: a fluorescent probe for in vivo measurement of receptor biochemistry. Nucl Med Biol. 2005 Oct;32(7):687-93.