

FITC-Dextran (MW 1000)

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Keep away from direct sunlight
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	FITC-Dextran (MW 1000) is a compound classified under fluorescent dyes. It is commonly utilized in biomedical research as a tracer molecule to label and track cells or other biological materials. Composed of fluorescein isothiocyanate (FITC) and dextran, the latter being a complex carbohydrate derived from starch, this combination forms a stable fluorescent tracer suitable for microscopic observation or quantification using specialized detection equipment.
Targets(IC50)	Others
In vitro	FITC-Dextran (MW 1000) is a fluorescein isothiocyanate (FITC) labeled dextran fluorescent probe with excitation and emission wavelengths of 495 nm and 525 nm, respectively. It serves as a marker to identify cell damage caused by heat shock and study both early and late stages of apoptosis. Additionally, FITC-Dextran (MW 1000) is utilized in investigating cell permeability, including assessing the permeability and disruption of the blood-brain barrier.
In vivo	Guidelines (Following is our recommended protocol. This protocol only provides a guideline, and should be modified according to your specific needs). Assessment of Intestinal Barrier Function: 1. Subject mice to fasting for 4 hours. 2. Administer FITC-Dextran MW 20000 to mice via oral gavage at a dose of 0.6 mg/g. 3. Measure fluorescence intensity within 4 hours at excitation nm/emission 520 nm.

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