

## FITC-Dextran (MW 110000)

## 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 110000) is a compound classified as a fluorescent dye. It is commonly used in biomedical research as a tracer molecule to label and track cells or other biological materials. Composed of fluorescein isothiocyanate (FITC) and dextran, where dextran is a complex carbohydrate derived from starch, this combination forms a stable fluorescent tracer that can be observed under a microscope or quantified using specialized detection instruments.
Targets(IC50)	Others
In vitro	FITC-Dextran (MW 110000) is a fluorescein isothiocyanate (FITC) dextran fluorescent probe with excitation and emission wavelengths of 495 nm and 525 nm, respectively. It serves as a tracer to reveal cell damage induced by heat shock and to study both early and late stages of apoptosis. Additionally, FITC-Dextran (MW 110000) is used in research on cell permeability, including the assessment of blood-brain barrier permeability and disruption. Store it protected from light.
In vivo	Assessment of Intestinal Barrier Function: 1. Subject mice to a fasting period of 4 hours. 2. Administer FITC-Dextran with a molecular weight of 110,000 to the mice via gavage (0.6 mg/g). 3. Measure the fluorescence intensity (Ex nm/Em 520 nm) within 4 hours.

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