

## FITC-Dextran (MW 20000)

## 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 20000) is a compound classified as a fluorescent dye. It is commonly used as a tracer molecule in biomedical research to label and track cells or other biological materials. This compound is a combination of fluorescein isothiocyanate (FITC) and dextran, where dextran is a complex carbohydrate derived from starch. The combination results in a stable fluorescent tracer, observable under a microscope or quantifiable with specialized detection instruments.
Targets(IC50)	Others
In vitro	FITC-Dextran (MW 20000) is a fluorescein isothiocyanate (FITC) dextran fluorescent probe with excitation and emission wavelengths of 495 nm and 525 nm, respectively. It serves as a marker to reveal cell damage induced by heat shock and to study both early and late stages of apoptosis. Additionally, FITC-Dextran (MW 20000) is utilized in research on cellular permeability, such as assessing blood-brain barrier permeability and measuring the extent of blood-brain barrier disruption. Store protected from light.
In vivo	Assessment of Intestinal Barrier Function: 1. Mice are fasted for 4 hours. 2. Administer FITC-Dextran (MW 20000) to the mice via gavage at a dose of 0.6 mg/g. 3. Measure fluorescence intensity within 4 hours (Ex nm/Em 520 nm).

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