

## FITC-Dextran (MW 70000)

## 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 70000) is a compound categorized under fluorescent dyes. It is commonly used as a tracer molecule in biomedical research to label and track cells or other biological substances. Composed of fluorescein isothiocyanate (FITC) and dextran—a complex carbohydrate extracted from starch—this combination forms a stable fluorescent tracer, which can be observed under a microscope or quantified using specialized detection equipment.
Targets(IC50)	Others
In vitro	FITC-Dextran (MW 70000) is a fluorescein isothiocyanate (FITC) dextran fluorescent probe (Ex=495 nm; Em=525 nm). It serves as a marker to reveal cell damage induced by heat shock and to study the early and late stages of apoptosis. Additionally, FITC-Dextran (MW 70000) is used in research on cell permeability, such as evaluating blood-brain barrier permeability and the extent of its disruption. Storage instructions: protect from light.
In vivo	To assess intestinal barrier function: 1. Subject mice to a 4-hour fasting period. 2. Administer FITC-Dextran MW 70000 orally to the mice at a dosage of 0.6 mg/g. 3. Measure fluorescence intensity within 4 hours (Ex nm/Em 520 nm).

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481