

## FITC-Dextran (MW 2,000,000)

## 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 2,000,000) is a fluorescent dye-based compound that can be used for short cycle durations to outline blood vessels. FITC-Dextran (MW 2,000,000) is involved in the quantification of BBB leakage, and can be used in conjunction with a confocal microscope to visualize blood-brain-barrier leakage.
Targets(IC50)	Others
In vitro	FITC-Dextran (MW 2,000,000) is a fluorescein isothiocyanate (FITC) labeled dextran fluorescence probe (Ex=495 nm; Em=525 nm), which serves as a marker to reveal cell damage induced by heat shock and to investigate both early and late stages of apoptosis.

## Solubility Information

Solubility	DMSO: 40 mg/mL, Sonication is recommended. H2O: 15 mg/mL, Sonication is recommended. ( < 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

## Reference

- Natarajan R, et al. Fluorescein Isothiocyanate (FITC)-Dextran Extravasation as a Measure of Blood-Brain Barrier Permeability. *Curr Protoc Neurosci.* 2017 Apr 10;79:9.58.1-9.58.15.
- Eriksson I, et al. Analysis of Lysosomal pH by Flow Cytometry Using FITC-Dextran Loaded Cells. *Methods Mol Biol.* 2017;1594:179-189.
- Yu W, et al. ACE2 contributes to the maintenance of mouse epithelial barrier function. *Biochem Biophys Res Commun.* 2020 Dec 17;533(4):1276-1282.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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