

## FITC-Dextran (MW 4000)

Cat. No.:	HY-128868A
CAS No.:	60842-46-8
Target:	Others
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)

## FITC-Dextran (MW 4000)

### SOLVENT & SOLUBILITY

<b>In Vitro</b>	H <sub>2</sub> O : 16.67 mg/mL (Need ultrasonic) DMSO : 16.67 mg/mL (Need ultrasonic)
<b>In Vivo</b>	<ol style="list-style-type: none"><li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: 1.67 mg/mL (Infinity mM); Clear solution; Need ultrasonic</li><li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: 1.67 mg/mL (Infinity mM); Suspended solution; Need ultrasonic</li><li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: 1.67 mg/mL (Infinity mM); Clear solution; Need ultrasonic</li></ol>

### BIOLOGICAL ACTIVITY

<b>Description</b>	FITC-Dextran (MW 4000) is a marker consisting of coupling fluorescein-isothiocyanate to dextran (4 kDa). FITC-Dextran are polysaccharides comprised of varying lengths of branched glucose molecules and can be used to determine solute, ion and protein permeability of the blood-brain barrier (BBB) based on the size of the dextran used <sup>[1][2][3]</sup> .
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### CUSTOMER VALIDATION

- Adv Sci (Weinh). 2021 Aug 16;e2101912.
- Food Funct. 23rd October 2021.
- Biochem Biophys Res Commun. 2020 Dec 17;533(4):1276-1282.
- Exp Brain Res. 2021 Jan;239(1):341-350.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

### REFERENCES

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[1]. 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.

[2]. Hoffmann A, et al. High and Low Molecular Weight Fluorescein Isothiocyanate (FITC)-Dextran to Assess Blood-Brain Barrier Disruption: Technical Considerations. *Transl Stroke Res.* 2011 Mar;2(1):106-11.

[3]. Eriksson I, et al. Analysis of Lysosomal pH by Flow Cytometry Using FITC-Dextran Loaded Cells. *Methods Mol Biol.* 2017;1594:179-189.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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