

## Dextran (MW 40000)

**Cat. No.:** HY-112624C  
**CAS No.:** 9004-54-0  
**Molecular Weight:** 40000  
**Target:** Endogenous Metabolite; Biochemical Assay Reagents  
**Pathway:** Metabolic Enzyme/Protease; Others  
**Storage:** 4°C, sealed storage, away from moisture

## Dextran (MW 40000)

\* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 100 mg/mL (2.50 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	0.0250 mL	0.1250 mL	0.2500 mL
	5 mM	---	---	---
	10 mM	---	---	---

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

Dextran (MW 40000) is a complex carbohydrate polymer consisting of glucose molecules linked by glycosidic bonds. Dextran has excellent solubility in water, making it useful as a viscosity modifier or stabilizer in foods, paints and adhesives. In the biomedical field, dextran is often used as a plasma expander because of its ability to increase blood volume when administered intravenously. It can also be modified to create dextran-based drug delivery systems, such as targeted nanoparticles.

#### IC<sub>50</sub> & Target

Human Endogenous Metabolite

#### In Vitro

Dextran (MW 40000) is a biochemical reagent that can be used as a biological material or organic compound for life science related research.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA