

Dextran sulfate sodium salt (MW 35000-45000)

Cat. No.:	HY-116282C		
CAS No.:	9011-18-1		
Target:	Apoptosis; HIV		
Pathway:	Apoptosis; Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

Dextran sulfate sodium salt (MW 35000-45000)

SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 5.5 mg/mL (ultrasonic and warming and heat to 60°C) DMSO : < 1 mg/mL (ultrasonic;warming;heat to 60°C) (insoluble or slightly soluble)
In Vivo	1. Add each solvent one by one: PBS Solubility: 25 mg/mL (Infinity mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description	Dextran sulfate sodium salt (MW 35000-45000) is a polymer of anhydroglucose with the molecular weight range of 35000-45000. Dextran sulfate sodium salt can be used to induce colitis. Dextran sulfate sodium salt also can inhibit the replication of the human immunodeficiency virus by preventing the adsorption of the virus into host cells ^{[1][2][3]} .
In Vitro	Dextran sulfate (25 µg/mL) sodium salt completely protects MT-4 cells against HIV-1-induced cytopathogenicity ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Dextran sulfate sodium salt (MW 35000-45000) can be used in animal modeling to construct colitis models. Dextran sulfate sodium salt (3%; in drinking water for 7 days) induces colitis in mice ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Cell Mol Immunol. 2022 Jul 7.
- Front Immunol. 2022 Oct 18;13:1013686.

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REFERENCES

- [1]. Regmi S, et, al. Enhanced viability and function of mesenchymal stromal cell spheroids is mediated via autophagy induction. *Autophagy*. 2021 Oct;17(10):2991-3010.
- [2]. Araki Y, et, al. Dextran sulfate sodium administered orally is depolymerized in the stomach and induces cell cycle arrest plus apoptosis in the colon in early mouse colitis. *Oncol Rep*. 2012 Nov;28(5):1597-605.
- [3]. Baba M, et al. Mechanism of inhibitory effect of dextran sulfate and heparin on replication of human immunodeficiency virus in vitro. *Proc Natl Acad Sci U S A*. 1988 Aug;85(16):6132-6.
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Caution: Product has not been fully validated for medical applications. For research use only.

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