

Dextran sulfate sodium salt (MW 4500-5500)

Cat. No.:	HY-116282A		
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

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SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 100 mg/mL (Need ultrasonic)
In Vivo	1. Add each solvent one by one: PBS Solubility: 50 mg/mL (Infinity mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description	Dextran sulfate sodium salt (MW 4500-5500) is a polymer of anhydroglucose with the molecular weight range of 4500-5500. 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 4500-5500) 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.

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.

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

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