

## Dextran sulfate sodium salt (MW5000)

Cat. No.:	HY-116282
CAS No.:	9011-18-1
Target:	HIV; Apoptosis
Pathway:	Anti-infection; Apoptosis
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

Dextran sulfate sodium salt

### SOLVENT & SOLUBILITY

In Vitro	H <sub>2</sub> O : 100 mg/mL (Need ultrasonic)
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### BIOLOGICAL ACTIVITY

Description	Dextran sulfate sodium salt (MW5000) is a polymer of anhydroglucose with the molecular weight of 5000.
In Vitro	Dextran sulfate (25 µg/mL) sodium salt completely protects MT-4 cells against HIV-1-induced cytopathogenicity <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Dextran sulfate sodium salt (3%; in drinking water for 7 days) induces colitis in mice <sup>[1]</sup> . 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]. 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.
- [3]. 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.

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

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