

Pentosan Polysulfate

Chemical Properties

CAS No. : 37300-21-3

Formula:

Molecular Weight:

Pentosan Polysulfate

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	Pentosan Polysulfate is a potent and selective anti-HIV agent with anti-inflammatory and pro-chondrogenic properties, and used for treatment of interstitial cystitis.
Targets(IC50)	HIV Protease
In vitro	Pentosan polysulfate inhibits HIV-1 activity (ED50 of 0.19 µg/mL in MT-4 cells), HIV-1 antigen expression in HUT-78 cells (ED50 of 0.02 µg/mL), and achieves complete inhibition of HIV-1 antigen expression at 4.0 µg/mL[2].
In vivo	Pentosan polysulfate treatment preserves renal function, significantly reduces albuminuria, and markedly decreases the severity of renal lesions, including tubulointerstitial inflammation, and also reduces upregulation of TNFα and proinflammatory genes in aging diabetic kidneys[3].

Solubility Information

Solubility	DMSO: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Reference

Schuchman EH, et al. Pentosan polysulfate: a novel therapy for the mucopolysaccharidoses. PLoS One. 2013;8(1): e54459.

Baba M, et al. Pentosan polysulfate, a sulfated oligosaccharide, is a potent and selective anti-HIV agent in vitro. Antiviral Res. 1988 Sep;9(6):335-43.

Wu J, et al. Inhibition of inflammation by pentosan polysulfate impedes the development and progression of severe diabetic nephropathy in aging C57B6 mice. Lab Invest. 2011 Oct;91(10):1459-71.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481