Poly(hexamethylenebiguanide) hydrochloride

Cat. No.: HY-W017766

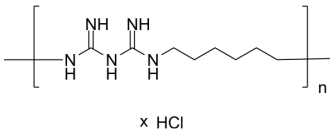
CAS No.: 32289-58-0

Molecular Formula: $(C_8H_{17}N_5)n.xHCl$

Target: Bacterial

Pathway: Anti-infection

Storage: 4°C, sealed storage, away from moisture
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (Need ultrasonic)
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (Infinity mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (Infinity mM); Clear solution

BIOLOGICAL ACTIVITY

Description	Poly(hexamethylenebiguanide) hydrochloride is an antimicrobial agent, which can be used in medical, apparel, and household textile sectors[1].

REFERENCES

[1]. Richard S Blackburn, et al. Sorption of poly(hexamethylenebiguanide) on cellulose: mechanism of binding and molecular recognition. Langmuir. 2006 Jun 20;22(13):5636-44.

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