

Product Information

Sulfadimethoxine agent, Chondroitin sulfate-sulfadimethoxine, Purity $\geq 95\%$

Cat. No.: X25-05-YM043

Size: 100 mg; 250 mg; 500 mg; 1 g; 5 g

Synonym: Sulfadimethoxine-chondroitin sulfate; Sulfadimethoxine-chondroitin sulfate; Chondroitin sulfate-sulfadimethoxine

This product is for research use only and is not intended for diagnostic use.

Product Information

Description	Sulfadimethoxine-chondroitin sulfate antimicrobial polymer links the sulfonamide through diazonium salt coupling, maintaining antibacterial efficacy while enhancing solubility.
Glycan Name	Chondroitin sulfate
Glycan Structure	The glycan structure of chondroitin sulfate (CS) is a sulfated glycosaminoglycan (GAG) composed of repeating disaccharide units. Each unit consists of: N-acetyl-D-galactosamine (GalNAc) ($\beta 1 \rightarrow 4$ linked) D-glucuronic acid (GlcA) ($\beta 1 \rightarrow 45$ linked)
Source	Chemical synthesis
Functional Group	Sulfadimethoxine
Form	Solid or powder
Purity	$\geq 95\%$
Impurities	No visible impurities to the naked eye.
Solubility	This product is soluble in most organic solvents, such as DCM, DMF, DMSO, and THF, and exhibits excellent solubility in water.
Identity	Confirmed by NMR.
Stability	It is stable under its storage temperature.
Quality Level	Research level
Applications	Chondroitin sulfate-sulfadimethoxine can be used for its potential to engineer nitroimidazole carriers for anaerobic microbial targeting.
Storage	Store at -20°C , protect from light and moisture.