

## Product Information

### Azithromycin agent, Chondroitin sulfate-azithromycin, Purity $\geq 95\%$

**Cat. No.:** X25-05-YM019

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

**Synonym:** Azithromycin-chondroitin sulfate; Azithromycin-chondroitin sulfate; Chondroitin sulfate-azithromycin

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

#### Product Information

|                         |   |
|-------------------------|---|
| <b>Description</b>      | Azithromycin-chondroitin sulfate antimicrobial conjugate links the macrolide antibiotic <i>via</i> pH-labile bonds to chondroitin's hydroxyl groups, enabling site-specific drug release.   |
| <b>Glycan Name</b>      | Chondroitin sulfate   |
| <b>Glycan Structure</b> | 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) ( $\beta 1 \rightarrow 21$ linked) |
| <b>Source</b>           | Chemical synthesis  |
| <b>Functional Group</b> | Azithromycin  |
| <b>Form</b>             | Solid or powder   |
| <b>Purity</b>           | $\geq 95\%$   |
| <b>Impurities</b>       | No visible impurities to the naked eye.   |
| <b>Solubility</b>       | This product is soluble in most organic solvents, such as DCM, DMF, DMSO, and THF, and exhibits excellent solubility in water.  |
| <b>Identity</b>         | Confirmed by NMR.   |
| <b>Stability</b>        | It is stable under its storage temperature.   |
| <b>Quality Level</b>    | Research level  |
| <b>Applications</b>     | Chondroitin sulfate-azithromycin can be used for its potential to develop macrolide antibiotic carriers for intracellular bacterial infections.   |
| <b>Storage</b>          | Store at $-20^{\circ}\text{C}$ , protect from light and moisture.   |