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| Product Name: | Oritavancin Diphosphate |
| Product Number: | O032 |
| CAS Number: | 192564-14-0 |
| Molecular Formula: | $C_{86}H_{97}Cl_3N_{10}O_{26} \cdot 2H_3PO_4$ |
| Molecular Weight: | 1989.09 |
| Description: | <p>Oritavancin is a semisynthetic vancomycin analogue active against gram-positive bacteria. It has a secondary mode of action that allows it to remain active against vancomycin-resistant organisms. It is rapidly bactericidal, and effective at killing biofilm-producing pathogens like MRSA and VRE.</p> <p>Oritavancin diphosphate is soluble in water.</p> |
| Mechanism of Action: | <p>Like other glycopeptides and lipoglycopeptides, oritavancin inhibits transglycosylation to stop peptidoglycan synthesis.</p> <p>Its secondary mode of action is to interact directly with the cell membranes, causing depolarization which permeabilizes the membrane and causes cell death.</p> |
| References: | <p>Zhanel, G. G., Schweizer, F., & Karlowsky, J. A. (2012). Oritavancin: Mechanism of action. <i>Clinical Infectious Diseases</i>, 54(suppl 3), S214–S219. doi:10.1093/cid/cir920</p> |