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| Product Name: | Tyrothricin |
| Product Number: | T043 |
| CAS Number: | 1404-88-2 |
| Molecular Formula: | $C_{65}H_{85}N_{11}O_{13}$ |
| Molecular Weight: | 1228.44 |
| Form: | Powder |
| Appearance: | White or almost white powder |
| Storage Conditions: | 2-8°C |
| Description: | Tyrothricin is a large cyclic polypeptide antibiotic isolated from <i>Brevibacillus brevis</i> . Tyrothricin is composed of a mixture of tyrocidins and gramicidins which have antimicrobial activity against Gram-positive bacteria. |
| Mechanism of Action: | Tyrothricin targets and inserts into the gram positive membrane where it disrupts normal permeability leading to cell death. Tyrothricin is typically used topically as it would be too toxic to use systemically. |
| Spectrum: | Tyrothricin is effective against Gram positive bacteria and shows little to no effect against Gram negative bacteria. |
| References: | Farmer, S. W., and et al. "Gramicidin S Is Active against Both Gram-positive and Gram-negative Bacteria." International Journal of Peptide and Protein Research 47.6 (1996): 460-66. www.ncbi.gov. Web. 4 Sept. 2012. "Tyrothricin." Http://lib.njutcm.edu.cn/. N.p., n.d. Web. 25 Mar. 2014. |