
Product Data Sheet

Product Name: Tyrothricin

Cat. No.: GC18414

Chemical Properties

Cas. No. 1404-88-2

SMILES N/A

Formula C₆₆H₈₇N₁₃O₁₃ (for Tyrocidine A) M.Wt 1270.5

Solubility DMSO : 100 mg/mL (Need ultrasonic) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Tyrothricin is a polypeptide antibiotic mixture produced by *B. brevis*. Tyrothricin is a mixture of tyrocidine and gramicidin that has rapid in vitro bactericidal activity against *T. microdentium*, *T. macrodentium*, *T. vincentii*, *T. buccalis*, *T. mucosum*, *T. vaginalis*, *T. cruzi*, and *L. tropica*. Preclinical studies demonstrate that intravenous use of tyrothricin leads to hemolysis-induced lethality (LD50s = 0.4 and 0.3 mg/kg, in dogs and mice, respectively) and damages liver, kidney, and olfactory tissues. Formulations containing tyrothricin are used topically to treat bacterial skin infections.

Caution: Product has not been fully validated for medical applications. For research use only.

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