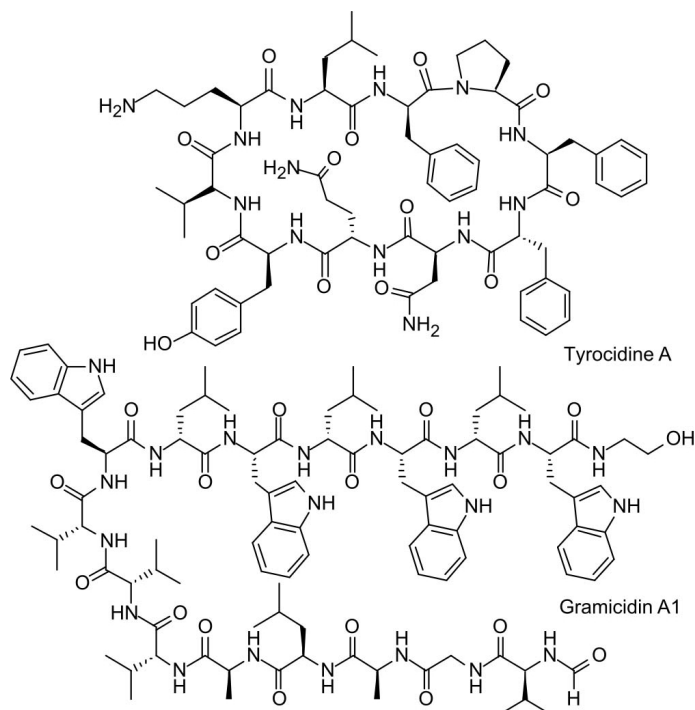


## Tyrothricin

Pack sizes.: 25mg, 100mg



### Synonyms:

Bactralycin, Dermotricine

## Specifications

CAS #	: <b>1404-88-2</b>
Molecular Formula	: <b>C66H87N13O13(forTyrocidineA(80%))</b>
Molecular Weight	: <b>1269.7</b>
Source	: -
Appearance	: <b>White solid</b>
Purity	: <b>&gt;95% composite purity (based on 80% tyrocidine and 20% Gramicidin complexes)</b>
Long Term Storage	: <b>-20°C</b>
Solubility	: <b>Soluble in ethanol, methanol, DMF or DMSO.</b>

## Application Notes

Tyrothricin is a complex of two unrelated peptide families, gramicidin complex and tyrocidines complex, produced by *Bacillus brevis* and discovered by Dubos in 1939. Typically, tyrothricin is composed of 20% of the linear pentadecylpeptide gramicidins and 80% of cyclic decapeptide tyrocidines. Both the gramicidins and tyrocidines act by disrupting bacterial cell wall integrity, but by differing mechanisms. Tyrothricin is used clinically for bacterial skin infections in some countries.

## References

1. Studies on a bacterial agent extracted from a soil bacillus. Dubos R.J. J. Exp. Med. 1939, 70, 11.
2. The isolation of bacterial substances from cultures of *Bacillus brevis*. Hotchkiss R.D. & Dubos R.J. J. Biol. Chem. 1941, 141, 155.
3. The amino acid composition of tyrocidine. Gordon A.H. et al., Biochem. J. 1943, 37, 313.
4. Gramicidin channels and pores. Wallace B.A. Ann. Rev. Biophys. Biophysical Chem. 1990, 19, 127.