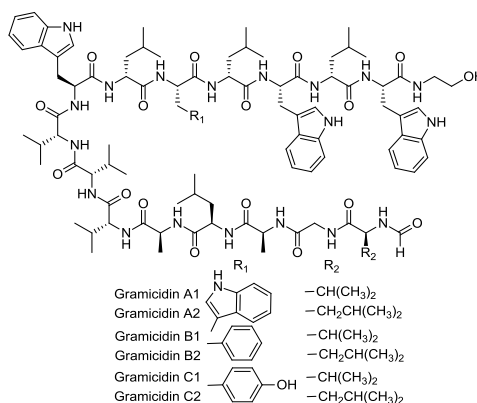


Gramicidin complex

Code No.: **BIA-G1592**

Pack sizes: **1 mg, 5 mg**



Synonyms :

Specifications

CAS #	: 1405-97-6
Molecular Formula	: C₉₉H₁₃₉N₁₉O₁₈ (for Gramicidin A1)
Molecular Weight	: 1883.3
Source	: <i>Bacillus brevis</i>
Appearance	: White to off white solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO.

Application Notes

Gramicidins are a family of linear pentadecapeptides isolated from *Bacillus brevis* by Dubos at the Rockefeller Institute in 1939. Gramicidin is a complex of six closely related analogues A1, A2, B1, B2, C1 and C2 where A1 and A2 are the dominant components. Gramicidins act by forming channels in cell membranes causing ion leakage, and is an essential bioprobe for understanding the nature of the cell membranes.

References

1. Studies on a bactericidal agent extracted from a soil bacillus: I. Preparation of the agent. Its activity in vitro. Dubos R.J. J. Exp. Med, 1939, 70, 1.
2. The isolation of bacterial substances from cultures of *Bacillus brevis*. Hotchkiss R.D. & Dubos R.J. J. Biol. Chem. 1941, 141, 155.
3. Gramicidin A. I. Determination of composition and amino acid configuration by enzymatic and gas chromatographic methods. Ishii S-I. & Witkop B. J. Am. Chem. Soc. 1963, 85, 1832.
4. Gramicidin channels and pores. Wallace B.A. Ann. Rev. Biophys. Biophysical Chem. 1990, 19, 127.