

**PRODUCT: Gramicidin**

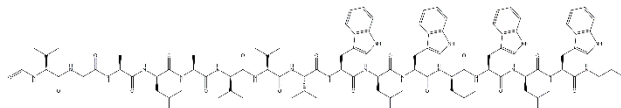
**ALTERNATE NAMES:** Gramoderm; Gramicidin A; Linear Gramicidin; Gramicidina; Gramicidinum; Gramicidine; channel-forming ionophore

**CATALOG#:** B1624-500, -1G, -5G

**AMOUNT:** 500 mg, 1 g, 5 g

**SOURCE:** *Bacillus aneurinolyticus (Bacillus brevis)*

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>99</sub>H<sub>140</sub>N<sub>20</sub>O<sub>17</sub>

**MOLECULAR WEIGHT:** 1882.3

**CAS NUMBER:** 1405-97-6

**APPEARANCE:** White powder with faint yellow cast

**SOLUBILITY:** Ethanol: 50 mg/mL  
Isopropanol, Ethylene Glycol, Acetone, Formamide: >20 mg/mL

**PURITY:** >98%

**STORAGE:** Store at -20°C. Protect from air and light

**DESCRIPTION:** Gramicidin is a Linear polypeptide antibiotic complex, a mixture of gramicidin A, B, C, and D. Gramicidin D, a channel-forming ionophore, which are active against most Gram-positive bacilli and Gram-negative organisms.

**REFERENCES:**

1. Langs et al., Science, 241, 188-191 (1988).
2. Ovchinnikov et al, Eur. J. Biochem., 94, 321-336 (1979).
3. Urry et al., Topics in Current Chem., 128, 175-218 (1985).
4. Modest et al., J. Gen. Microbiology, 130, 747-755 (1984).
5. Sarkar, N. et al., Spores, 7, 226-231 (1978).
6. Bohg et al., Eur. J. Biochem., 160, 587-591 (1986).

**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

**RELATED PRODUCTS:**

- Ionomycin, Calcium Salt (Cat. No. 1566-5)
- Ionomycin, Free Acid (Cat. No. 1565-5)
- Monensin Methyl Ester (Cat. No. 1808-50, 250)
- Nigericin sodium salt (Cat. No. 2096-5, 25)
- Valinomycin (Cat. No. 2238-10, 50)

**USAGE:** **FOR RESEARCH USE ONLY! Not to be used in humans**