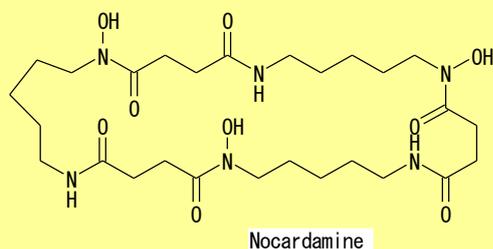


Nocardamine

Cat.# BLK-0680

Structure

**Origin:** *Streptomyces* sp.**CAS Registry Number:** 26605-16-3**Appearance:** off-white solid**Molecular Formula/ Weight:** C₂₇H₄₈N₆O₉=600.71**Purity:** 95>% by HPLC**Solubility:** Sol. DMSO, hot MeOH, water
Insol. Chloroform, EtOAc, Hexane

Background Information:

Nocardamin (desferrioxamine E) is a cyclic siderophore consisting of three units of 5-succinylated-1-amino-hydroxyamino-pentane belonging to the ferrioxamine group. Nocardamin is produced by species of *Nocardia*^{1,2}, *Chromobacterium*³, *Pseudomonas*⁴, and several other *Streptomyces* species^{5,6}. It is known that desferrioxamines act as siderophores and have important clinical applications⁷. In addition, nocardamin stimulates secondary metabolite formation and morphological differentiation in various actinomycete strain⁸.

Handling and Storage:

Store at -20°C.

References:

- 1) Stoll A. et al. *Allg. Pathol. Bakteriolog.* **14**, 225-233 (1951).
- 2) Zihner H. et al. *Pathol. Microbiol.* **25**, 708-736 (1962).
- 3) Miller A and Zahner H. *Arch. Mikrobiol.* **62**, 257-263 (1968).
- 4) Meyer JM and Abdallah MA. *J. Gen. Microbiol.* **118**, 125-129 (1980).
- 5) Bickel HR. et al. *Helv. Chim. Acta.* **43**, 2118-2128 (1960).
- 6) Zihner H. et al. *Pathol. Microbiol.* **25**, 708-736 (1962).
- 7) Tam TF. et al. *Curr. Med. Chem.* **10**, 983-995 (2003).
- 8) Yamanaka K. *Microbiol.* **151**, 2899-2905 (2005).

Manufactured with Cortesy strain from The Kitasato Institute.