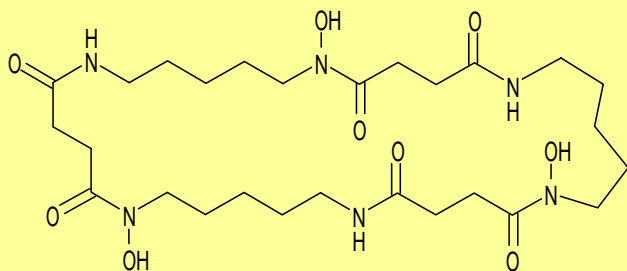


## Structure

**Origin:** *Streptomyces* sp. K04-0144**CAS Registry Number:** 26605-16-3**CA Index Name:** DeferrioxamineE  
DesferrioxamineE  
ProferrioxamineE  
TerragineE**Appearance:** off-white solid**Molecular Formula/ Weight:** C<sub>27</sub>H<sub>48</sub>N<sub>6</sub>O<sub>9</sub>=600.71**Melting Point:** 195-196      **Purity:** 98>% 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*<sup>1,2</sup>, *Chromobacterium*<sup>3</sup>, *Pseudomonas*<sup>4</sup>, and several other *Streptomyces* species<sup>5,6</sup>. It is known that desferrioxamines act as siderophores and have important clinical applications<sup>7</sup>. In addition, nocardamin stimulates secondary metabolite formation and morphological differentiation in various actinomycete strain<sup>8</sup>.

**Handling and Storage:**

Store at -20 .

**References:**

- 1) Stoll A. et al. *Allg. Pathol. Bakteriologie*. **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).