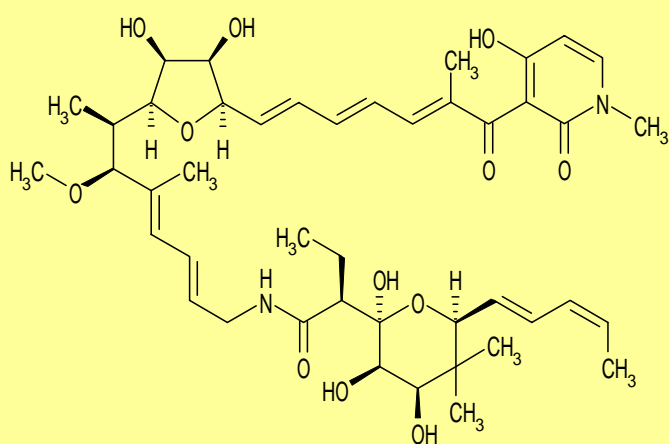


Aurodox

Cat.# BLK0340

**Structure****Origin:** *Streptomyces* sp. K06-0806**CAS Registry Number:** 12704-90-4**CA Index Name:** 1-Methylmocimycin**Appearance:** yellow solid**Molecular Formula/ Weight:** C<sub>44</sub>H<sub>62</sub>N<sub>2</sub>O<sub>12</sub>=810.99**Melting Point:** 135-138    **Purity:** 95>% by HPLC**Solubility:** Sol. MeOH, Chloroform  
Inso. water**Background Information:**

Aurodox produced essentially complete inhibition of poly(Phe) synthesis with a 50% inhibitory concentration at 0.13 $\mu$ M. Type III inhibitor. Aurodox was isolated from secondary metabolites of *Streptomyces goldiniensis*<sup>1)</sup> considered as possibly effective against *streptococcus pyogenes* infections. It may promote growth in poultry. Contact of aurodox-producing *Streptomyces goldiniensis* with its antibiotic is necessary for expression of resistance to aurodox. Aurodox inhibits both protein synthesis and the release of elongation factor Tu from the ribosomes in the producing organism. Mutants resistant to growth inhibition by aurodox are also resistant to feedback inhibition of aurodox biosynthesis by antibiotic<sup>2)</sup>.

**Handling and Storage:**Store at -20 . **Protect from light****References:**

1. C. Liu, et al. J Antibiot. **30**, 244-251 (1977).
2. J. Unowsky & D. C. Hoppe, J Antibiot. **31**, 662-6 (1978).

