



CERTIFICATE of ANALYSIS

PRODUCT: **Piericidin A**
[Piericidin A1, Shaoguanmycin B, Antibiotic MT 1882-I, Antibiotic SN 198E, Antibiotic IT 143D],
C₂₅H₃₇NO₄, M.W. 415.6, CAS# [2738-64-9]

PRODUCT NUMBER: P-1474

LOT NUMBER: C1082

APPEARANCE: Pale yellow oil

SOLUBILITY: Soluble in ethanol, methanol, DMF or DMSO.

SOURCE: *Streptomyces* sp. MST-AS5364

PURITY (HPLC): > 95%

PRODUCT DESCRIPTION: Piericidin A is the major analogue of a family of pyridyl antibiotics isolated from selected *Streptomyces* sp. It is a specific, potent inhibitor of NADH-ubiquinone oxidoreductase (Complex I) that binds to ubiquinone binding site(s). Piericidin A inhibits both mitochondrial and bacterial NADH-ubiquinone oxidoreductases, binding close to NUOD-NUOB interface.

STORAGE & HANDLING: Store at -20°C. **WARNING: VERY TOXIC!**

CAUTION: For laboratory research & scientific manufacturing use only. Not for human or drug use. The pharmacological and toxicological properties of this product have not been fully investigated. Use caution when handling. Do not use this compound if you are not fully trained or are unaware of the hazards involved.

Verified: DD