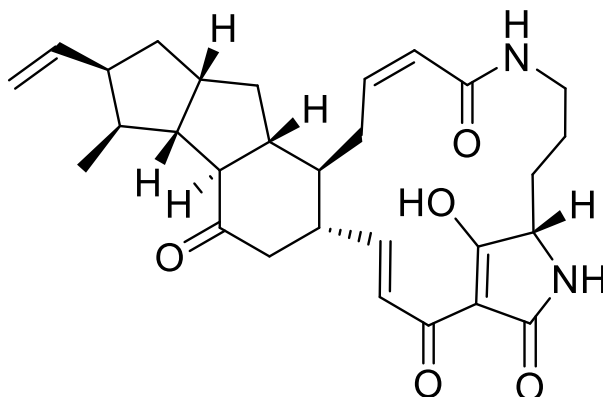


FI-3

Code No.: **BIA-F2934**

Pack sizes: **0.25 mg, 1 mg**



Synonyms : Antibiotic FI-3

Specifications

CAS #	: -
Molecular Formula	: C₂₉H₃₆N₂O₅
Molecular Weight	: 492.6
Source	: <i>Streptomyces</i> sp.
Appearance	: Tan solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO.

Application Notes

Antibiotic FI-3 is a rare tetramic acid antibiotic first reported in 2010 as a biosynthetic intermediate of the frontalamides by Clardy and co-workers at Harvard. FI-3 is active against Gram positive bacteria including methicillin sensitive and methicillin resistant *S. aureus* (MIC 32 and 128 µg/mL, respectively). FI-3 disrupts biofilm adherence at 64 µg/mL. FI-3 enhances the activity of tetracycline, gentamicin and vancomycin against *S. aureus*.

References

1. Common biosynthetic origins for polycyclic tetramate macrolactams from phylogenetically diverse bacteria. Blodgett J.A.V. et al. Proc Nat Acad Sci 2010, 107, 11692.
2. Fungal-derived xenobiotic exhibits antibacterial and antibiofilm activity against *Staphylococcus aureus*. Kumar S. et al. Drug Discov Ther 2018, 12, 214.