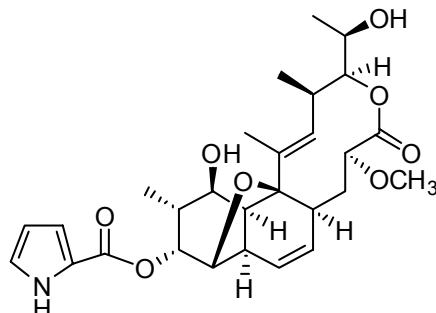


## Nargenicin

Code: **BIA-N1325**

Pack sizes: **1 mg, 5 mg**



Synonyms : **Nargenicin B1, CP 51467. Antibiotic CP 51467**

### Specifications

CAS # : **75923-01-2**  
Molecular Formula : **C<sub>29</sub>H<sub>39</sub>NO<sub>10</sub>**  
Molecular Weight : **561.6**  
Source : ***Nocardia argentinensis***  
Appearance : **White solid**  
Purity : **>99%**  
Storage : **-20°C**  
Solubility : **Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.**

### Application Notes

Nargenicin (CP-47,444) is a 10-membered macrocyclic lactone isolated from *Nocardia* in 1980 as an antibiotic. The macrocyclic lactone is anchored through vicinal carbons to a decalin bearing a pyrrole ester. Nargenicin exhibits potent activity against Gram positive bacteria, in particular MRSA strains. More recently, nargenicin has been shown to enhance retinoate-induced cell differentiation.

### References

1. Structure of natural antibiotic CP-47,444. Celmer W.D. *et al.* J. Am. Chem. Soc. **1980**, 102, 1203.
2. Production, isolation and biological activity of nargenicin from *Nocardia* sp. CS682. Sohng J.K. *et al.* Arch Pharm Res **2008**, 31, 1339.
3. Nargenicin enhances dihydroxyvitamin D-3 and all-trans retinoic acid-induced leukemia cell differentiation via PKC beta I/MAPK pathways. Kim S.H. *et al.* Biochem. Pharmacol. **2009**, 77, 1694.