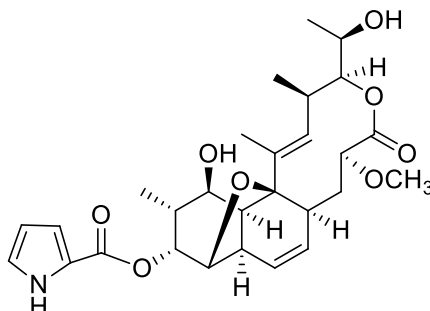


Nargenicin

Code No.: **BIA-N1325**

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



Synonyms : Nargenicin A1, CP47444, U39760

Specifications

CAS #	: 70695-02-2
Molecular Formula	: C₂₈H₃₇NO₈
Molecular Weight	: 515.6
Source	: <i>Nocardia argentinensis</i>
Appearance	: White solid
Purity	: >95% by HPLC
Long Term 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.