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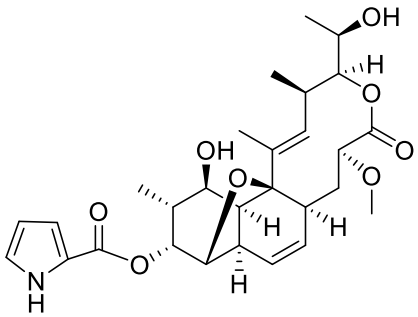
PRODUCT DATA SHEET

Nargenicin

Code No.: **BIA-N1325**

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



Synonyms : Nargenicin A1, CP47444, U39760

Specifications

CAS #	:	**70695-02-2**
Molecular Formula	:	**$C_{28}H_{37}NO_8$**
Molecular Weight	:	**515.6**
Source	:	***Nocardia argentinensis***
Appearance	:	**White solid**
Purity	:	**>95% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in methanol, 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.

For in vitro laboratory use only. Not for human or animal use.

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