

<b>Product Name:</b>	Nargenicin
<b>Product Number:</b>	N034
<b>CAS Number:</b>	70695-02-2
<b>Molecular Formula:</b>	C <sub>29</sub> H <sub>39</sub> NO <sub>10</sub>
<b>Molecular Weight:</b>	561.6
<b>Appearance:</b>	White solid
<b>Storage Conditions:</b>	-20°C
<b>Description:</b>	<p>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.</p> <p>Nargenicin is soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.</p>
<b>References:</b>	<p>Structure of natural antibiotic CP-47,444. Celmer W.D. et al. J. Am. Chem. Soc. 1980, 102, 1203.</p> <p>Production, isolation and biological activity of nargenicin from Nocardia sp. CS682. Sohng J.K. et al. Arch Pharm Res 2008, 31, 1339.</p> <p>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.</p>