

<b>Product Name:</b>	Pyridomycin
<b>Product Number:</b>	P100
<b>CAS Number:</b>	18791-21-4
<b>Molecular Formula:</b>	C <sub>27</sub> H <sub>32</sub> N <sub>4</sub> O <sub>8</sub>
<b>Molecular Weight:</b>	186.2
<b>Appearance:</b>	White solid
<b>Storage Conditions:</b>	-20°C
<b>Description:</b>	<p>Pyridomycin is a potent antibiotic active against mycobacteria and some Gram negative bacteria, originally isolated from <i>Streptomyces abidoiflavus</i> by Umezawa group at the NIH Japan in 1953, and since isolated from different species and published under several names. The unusual 12-membered macrocyclic depsipeptide comprises three unique sub-units incorporating two substituted pyridines. Recent reports of activity against isoniazid-resistant mycobacteria has seen pyridomycin identified as a potential lead for new generation antibiotics.</p> <p>Pyridomycin is soluble in ethanol, methanol, DMF and DMSO.</p>
<b>Mechanism of Action:</b>	Pyridomycin is thought to target NADH-dependent enoyl (acyl-carrier-protein) reductase InhA.
<b>References:</b>	<p>A new antibiotic, pyridomycin. Maeda K. et al. J. Antibiot. 1953, 6, 140.</p> <p>Towards a new tuberculosis drug: pyridomycin – nature's isoniazid. EMBO Mol. Med. 2012, 4, 1032.</p>