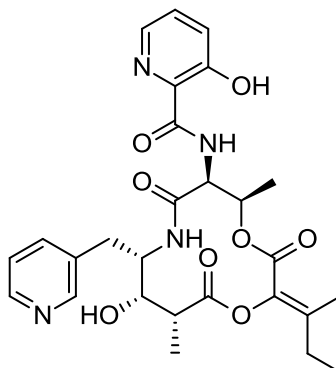


Pyridomycin

Code No.: **BIA-P1556**

Pack sizes: **0.5 mg, 2.5 mg**



Synonyms : U24544, Antibiotic U24544, Erizomycin

Specifications

CAS #	: 18791-21-4
Molecular Formula	: C₂₇H₃₂N₄O₈
Molecular Weight	: 540.6
Source	: <i>Streptomyces</i> sp.
Appearance	: Pink residue
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO.

Application Notes

Pyridomycin is a potent antibiotic active against mycobacteria and some Gram negative bacteria, originally isolated from *Streptomyces abidoflavus* 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. Pyridomycin is thought to target NADH-dependent enoyl (acyl-carrier-protein) reductase InhA. Recent reports of activity against isoniazid-resistant mycobacteria has seen pyridomycin identified as a potential lead for new generation antibiotics.

References

1. A new antibiotic, pyridomycin. Maeda K. et al. J. Antibiot. 1953, 6, 140.
2. Towards a new tuberculosis drug: pyridomycin – nature's isoniazid. EMBO Mol. Med. 2012, 4, 1032.

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