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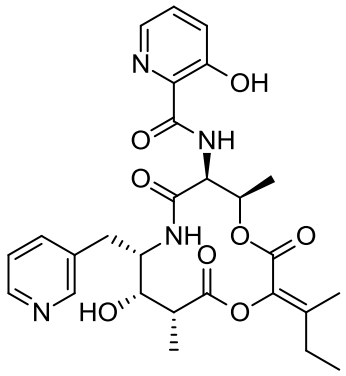
PRODUCT DATA SHEET

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	:	**$C_{27}H_{32}N_4O_8$**
Molecular Weight	:	**540.6**
Source	:	***Streptomyces* sp.**
Appearance	:	**Off white with pink tinge**
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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