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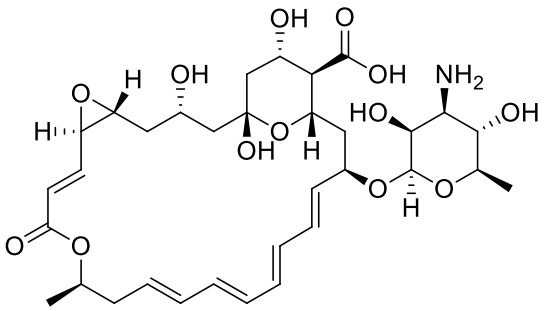
PRODUCT DATA SHEET

Pimaricin

Code No.: **BIA-P1210**

Pack sizes: **5 mg, 25 mg**



Synonyms : Natamycin, A 5283, Delvolan, Delvocid, Myprozine, Natacyn, Natafucin, Pimafucin, Pimafugin, A5263, CL 12625, E235

Specifications

CAS #	:	**7681-93-8**
Molecular Formula	:	**$C_{33}H_{47}NO_{13}$**
Molecular Weight	:	**665.7**
Source	:	***Streptomyces* sp.**
Appearance	:	**Pale lemon solid**
Purity	:	**>95% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in methanol, DMSO. Limited water solubility.**

Application Notes

Pimaricin is a macrocyclic tetraene originally isolated from Streptomyces natalensis in 1957. Pimaricin exhibits broad spectrum antifungal activity against yeast and filamentous fungi by binding specifically to ergosterol to block fungal growth. Unlike the related polyenes, nystatin and filipin, pimaricin does not change the permeability of the plasma membrane. Pimaricin is used in the food industry for surface treatment of cheeses as a mould inhibitor.

References

1. Pimaricin, a new antifungal antibiotic. Struyk A.P. et al., Antibiot. Annual 1957, 5, 878. 2. Natamycin blocks fungal growth by binding specifically to ergosterol without permeabilizing the membrane. te Welscher, Y.M. et al., J. Biol. Chem. 2008, 283, 6393.

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

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