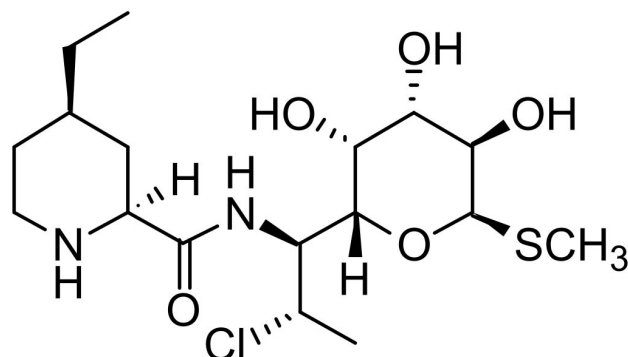


## Pirlimycin

Code No.: BIA-P1459

Pack sizes.: 1mg, 5mg



Synonyms:

-

## Specifications

CAS #	: <b>79548-73-5</b>
Molecular Formula	: <b>C17H31ClN2O5S</b>
Molecular Weight	: <b>411</b>
Source	: -
Appearance	: <b>White solid</b>
Purity	: <b>&gt;99% by HPLC</b>
Long Term Storage	: <b>-20°C</b>
Solubility	: <b>Soluble in ethanol, methanol, DMF or DMSO. Good water solubility.</b>

## Application Notes

Pirlimycin is a semi-synthetic lincosamide prepared from clindamycin by hydrolysing the propyl N-methylproline and re-annealing a 4-ethylpipercolic acid. Pirlimycin is more hydrophobic than clindamycin and is more potent against a number of important pathogens. Like other members of the lincosamide family, pirlimycin is a broad spectrum antibiotic with activity against anaerobic bacteria and protozoans. Pirlimycin acts by binding to the 23S ribosomal subunit, blocking protein synthesis. Pirlimycin has been less extensively researched than the older lincosamides.

## References

1. Synthesis and antimicrobial activity of clindamycin analogues: pirlimycin,1,2 a potent antibacterial agent. Birkenmeyer R.D. et al., J. Med. Chem. 1984, 27, 216.
2. In vitro activity of U-57930E, a new clindamycin analog, against aerobic gram-positive bacteria. Ahonkhai V.I. et al., Antimicrob Agents Chemother. 1982, 21, 902.