Clindamycin 2-phosphate

Synonyms: 7(S)-Chloro-7-deoxylincomycin 2-phosphate, Cleocin phosphate, Clindamycin phosphate, NSC 618653, U 28508

Specifications

- CAS #: 24729-96-2
- Molecular Formula: C_{18}H_{34}ClIN_{2}O_{8}PS
- Molecular Weight: 505.0
- Source: Semi-synthetic
- Appearance: White solid
- Purity: >99% by HPLC
- Long Term Storage: -20°C
- Solubility: Soluble in ethanol, methanol, DMF or DMSO. Good water solubility.

Application Notes

Clindamycin 2-phosphate is a salt of clindamycin, a semi-synthetic lincosamide. The salt is prepared by selective phosphorylation of the 2-hydroxy moiety of the sugar of clindamycin. The introduction of the phosphate affords improved solubility for injectable formulations. Like other members of the lincosamide family, clindamycin 2-phosphate is a broad spectrum antibiotic with activity against anaerobic bacteria and protozoans. Clindamycin acts by binding to the 23S ribosomal subunit, blocking protein synthesis.

References