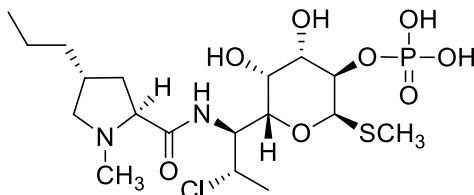


## Clindamycin 2-phosphate

Code No.: **BIA-C1503**

Pack sizes: **1 mg, 5 mg**



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

### Specifications

CAS #	: <b>24729-96-2</b>
Molecular Formula	: <b>C<sub>18</sub>H<sub>34</sub>ClN<sub>2</sub>O<sub>8</sub>PS</b>
Molecular Weight	: <b>505</b>
Source	: <b>Semi-synthetic</b>
Appearance	: <b>White solid</b>
Purity	: <b>&gt;95% 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

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

1. Chemical modification of lincomycin. Magerlein B.J. et al., Antimicrob. Agents Chemother. 1966, 6, 727.
2. Synthesis and bioactivity of lincomycin-2-phosphate. Morozowich W.J. Pharm. Sci. 1969, 58, 1485.