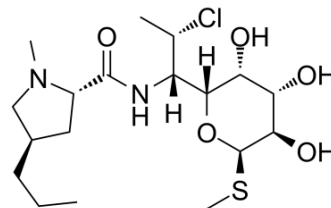


## Clindamycin

Cat. No.:	HY-B1455
CAS No.:	18323-44-9
Molecular Formula:	C <sub>18</sub> H <sub>33</sub> ClN <sub>2</sub> O <sub>5</sub> S
Molecular Weight:	424.98
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the COA.



### BIOLOGICAL ACTIVITY

#### Description

Clindamycin is an oral **protein synthesis** inhibitory agent that has the ability to suppress the expression of virulence factors in *Staphylococcus aureus* at sub-inhibitory concentrations (sub-MICs). Clindamycin resistance results from enzymatic methylation of the antibiotic binding site in the 50S ribosomal subunit (23S rRNA). Clindamycin decreases the production of Panton-Valentine leucocidin (PVL), toxic-shock-staphylococcal toxin (TSST-1) or alpha-haemolysin (Hla)<sup>[1]</sup>.

### REFERENCES

[1]. Hodille E, et al. Clindamycin suppresses virulence expression in inducible clindamycin-resistant *Staphylococcus aureus* strains. *Ann Clin Microbiol Antimicrob.* 2018 Oct 20;17(1):38.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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