

## Linopristin

Cat. No.:	HY-P1705
CAS No.:	325965-23-9
Molecular Formula:	C <sub>50</sub> H <sub>63</sub> N <sub>9</sub> O <sub>10</sub>
Molecular Weight:	950.09
Target:	Bacterial; Antibiotic
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

<b>Description</b>	Linopristin is a kind of type B streptogramin antibiotics. Linopristin, together with type A, Flopristin, to form the streptogramin combination NXL 103. Linopristin exhibit synergistic antimicrobial activity against certain pathogenic bacteria with Flopristin. The preference ratio of Linopristin/Flopristin is 30:70 (w/w) or 70 μM Linopristin +120 μM Flopristin [1].
<b>In Vitro</b>	Linopristin (0-64 μg/mL) has little effect on the the Gram-negative pathogens, due to its poor permeability of the outer cell membrane <sup>[1]</sup> . Linopristin inhibits the growth of <i>E. faecalis</i> , <i>S. aureus</i> , <i>S. pneumoniae</i> , with IC50s of 8 μM, 32 μM, and 4 μM, respectively <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Noeske J, et al. Synergy of streptogramin antibiotics occurs independently of their effects on translation. *Antimicrob Agents Chemother.* 2014 Sep;58(9):5269-79.

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

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