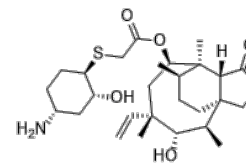


Product Name : Lefamulin
Cat. No. : PC-22410
CAS No. : 1061337-51-6
Molecular Formula : C₂₈H₄₅NO₅S
Molecular Weight : 507.73
Target : Bacterial
Solubility : 10 mM in DMSO



Biological Activity

Lefamulin (BC-3781) is a pleuromutilin class of antimicrobial agent, inhibits bacterial protein synthesis by selectively binding to the peptidyl transferase center of the bacterial ribosome, prevents the correct positioning of the 3'-CCA ends of tRNAs for peptide transfer.

Lefamulin (BC-3781) exhibits a log-normal MIC distribution against the population of *S. pneumoniae*, with modal MIC, MIC₅₀, and MIC₉₀ results of 0.12, 0.12, and 0.25 µg/ml, respectively.

Lefamulin (BC-3781) exhibits potent antibacterial activity against the most important respiratory and skin pathogens, including *Streptococcus* spp. and *Staphylococcus* spp., fastidious Gram-negative organisms, such as *Haemophilus influenzae*, and atypical respiratory pathogens, including *Mycoplasma pneumoniae*, *Chlamydia pneumoniae*, and *Legionella pneumophila*.

References

Waites KB, et al. *Antimicrob Agents Chemother.* 2017 Jan 24;61(2):e02008-16.

Rubino CM, et al. *Antimicrob Agents Chemother.* 2015 Jan;59(1):282-8.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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