Product Data Sheet



Balhimycin

Cat. No.: HY-148209 CAS No.: 140932-79-2 Molecular Formula: $C_{66}H_{73}Cl_{2}N_{9}O_{24}$ Molecular Weight: 1447.24

Target: Antibiotic; Bacterial Pathway: Anti-infection

Storage: Please store the product under the recommended conditions in the Certificate of

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Description	Balhimycin is a glycopeptide antibiotic, found from the fermentation broth of a Amycolatopsis sp. Balhimycin shows antibacterial activity against staphylococci and anaerobes $^{[1]}$.	
IC ₅₀ & Target	Glycopeptide	
In Vitro	Balhimycin (0.39-12.5 μg/mL; 18 h) shows bactericidal activity against S. aureus, Streptococcus epidermidis, and streptococcal strains ^[1] . Balhimycin (0.39-12.5 μg/mL; 18 h) shows good bactericidal activity against different Staphylococcal strains ^[1] . Balhimycin (1-15 μg/mL; 30 min) leads to cell membrane scrambling of platelets, and shows stimulation of platelet apoptosis ^[2] MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay ^[1]	
	Cell Line:	Staphylococcus aureus 209P, S. aureus 3066, S. aureus 20424, S. epidermidis 178, S. epidermidis 825, S. epidermidis 823, S. haemolyticus 712, S. haemolyticus 809, Streptococcus ATCC 29212, S. faecalis D 21777, S. faecalis D Endococcen, S. faecium D-59, S. faecium D-65
	Concentration:	0.39-12.5 μg/mL
	Incubation Time:	18 hours
	Result:	Showed MIC values ranging from 0.39 μg/mL to 12.5 μg/mL against S. aureus, Streptococcus epidermidis, and streptococcal strains.
	Cell Viability Assay ^[1]	
	Cell Line:	Staphylococcus aureus 3066, S. aureus 20424, S. epidermidis 825, S. haemolyticus 712, Streptococcus faecalis ATCC29212, S. faecalis D 21777, S. faecalis D-59
	Concentration:	0.39-1.56 μg/mL
	Incubation Time:	18 hours
	Result:	Showed MIC values ranging from 0.39 μg/mL to 1.56 μg/mL against staphylococcal strains.

REFERENCES
[1]. Nadkarni SR, et al. Balhimycin, a new glycopeptide antibiotic produced by Amycolatopsis sp. Y-86,21022. Taxonomy, production, isolation and biological activity. J Antibiot (Tokyo). 1994 Mar;47(3):334-41.
[2]. Towhid ST, et al. Stimulation of platelet apoptosis by balhimycin. Biochem Biophys Res Commun. 2013 May 31;435(2):323-6.

 $\label{lem:caution:Product} \textbf{Caution: Product has not been fully validated for medical applications. For research use only.}$

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