

Albomycin

Cat. No.:	HY-142072
CAS No.:	1414-39-7
Target:	DNA/RNA Synthesis; Bacterial; Antibiotic
Pathway:	Cell Cycle/DNA Damage; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

ALBOMYCIN

BIOLOGICAL ACTIVITY

Description	Albomycin is an inhibitor of aminoacyl-tRNA synthetases with Trojan-horse effect. Albomycin is delivered by iron-chelator portion into bacterial through ferrichrome-specific transporter system. Albomycin combats against a wide range of Gram-positive and Gram-negative bacteria. Albomycin also serves as an efficient iron-scavenger of producer ^[1] .
In Vitro	Albomycin also binds to FhuA, competing with ferrichrome, FhuA is a β -strand barrel buried in the outer membrane of E.coli. Otherwise, Albomycin binds to FhuD, a periplasmic subunit of the inner membrane ABC transporter FhuB/FhuC ^[1] . Albomycin remarkably inhibits the growth of Streptococcus pneumonia strains with minimal inhibitory concentrations (MIC) of 4-62 nM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Travin DY, et al. Natural Trojan horse inhibitors of aminoacyl-tRNA synthetases. RSC Chem Biol. 2021 Feb 22;2(2):468-485.

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

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