

Arylomycin A2

Cat. No.:	HY-P3884
CAS No.:	459844-20-3
Molecular Formula:	C ₄₂ H ₆₀ N ₆ O ₁₁
Molecular Weight:	824.96
Target:	Bacterial; Antibiotic
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Arylomycin A2, an antibiotic (Antibiotic), is a lipopeptide type I signal peptidase (SPase I) inhibitor. Arylomycin A2 has antibacterial effects ^[1] .
IC ₅₀ & Target	Lipopeptide
In Vitro	Arylomycin A2 exhibits very potent antibacterial activity against free-living <i>S. epidermidis</i> cells. The MIC values against planktonic <i>S. epidermidis</i> 1457 and RP62A are 0.235 µg/mL and 0.058 µg/mL for Arylomycin A2, respectively. Arylomycin A2 shows the antibacterial effect towards <i>S. epidermidis</i> biofilms, and reduces biofilm formation markedly ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Mark Paetzel, et al. Crystallographic and biophysical analysis of a bacterial signal peptidase in complex with a lipopeptide-based inhibitor. *J Biol Chem.* 2004 Jul 16;279(29):30781-90.

[2]. Katrijn Bockstael, et al. Evaluation of the type I signal peptidase as antibacterial target for biofilm-associated infections of *Staphylococcus epidermidis*. *Microbiology (Reading).* 2009 Nov;155(Pt 11):3719-3729.

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

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