

Product Data Sheet

Product Name: Arylomycin A2

Cat. No.: GC72211

Chemical Properties

Cas. No. 459844-20-3

Formula $C_{42}H_{60}N_6O_{11}$

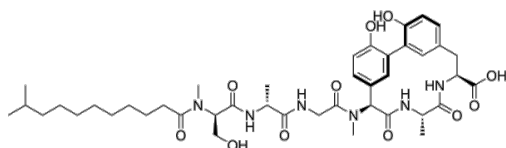
M.Wt 824.96

Solubility Storage Sealed storage, away from moisture

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

Arylomycin A2, an antibiotic (Antibiotic), is a lipopeptide type I signal peptidase (SPase I) inhibitor. Arylomycin A2 has antibacterial effects.

Arylomycin A2 exhibits very potent antibacterial activity against free-living *S. epidermidis* cells. The MIC values against planktonic *S. epidermidis* 1457 and RP62A are 0.235 µg/mL and 0.058 µg/mL for Arylomycin A2, respectively. Arylomycin A2 shows the antibacterial effect towards *S. epidermidis* biofilms, and reduces biofilm formation markedly^[2].

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

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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.

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