Aureobasidin A

Cat. No.: HY-P1975

CAS No.: 127785-64-2

Molecular Formula: $C_{60}H_{92}N_8O_{11}$

Molecular Weight: 1101.42

Target: Fungal

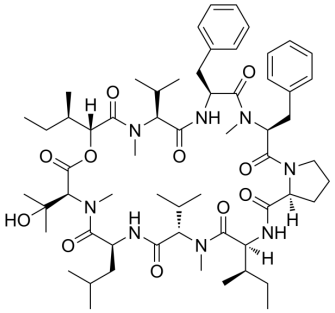
Pathway: Anti-infection

Storage: Sealed storage, away from moisture and light

Powder -80°C 2 years

-20°C 1 year

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (90.79 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	0.9079 mL	4.5396 mL	9.0792 mL
	5 mM	0.1816 mL	0.9079 mL	1.8158 mL
	10 mM	0.0908 mL	0.4540 mL	0.9079 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (2.27 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (2.27 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Aureobasidin A (Basifungin), a cyclic depsipetide, is an antifungal antibiotic. Aureobasidin A (Basifungin) A is an inhibitor of the inositolphosphorylceramide synthase AUR1[1][2].

In Vitro

Aureobasidin A arrests growth of yeast cells through both ceramide intoxication and deprivation of essential inositolphosphorylceramides[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Int J Mol Sci. 2023 Jan 26; 24(3), 2438.

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REFERENCES

[1]. K Ikai, et al. Structure of aureobasidin A. J Antibiot (Tokyo). 1991 Sep;44(9):925-33.

[2]. Vanessa Cerantola, et al. Aureobasidin A arrests growth of yeast cells through both ceramide intoxication and deprivation of essential inositolphosphorylceramides. Mol Microbiol. 2009 Mar;71(6):1523-37.

[3]. K Kino, et al. Aureobasidin A, an antifungal cyclic depsipeptide antibiotic, is a substrate for both human MDR1 and MDR2/P-glycoproteins. FEBS Lett. 1996 Dec 9;399(1-2):29-32.

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