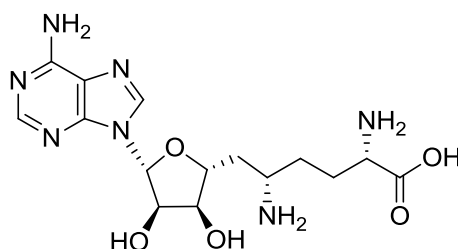


Sinefungin

Code No.: **BIA-S1376**

Pack sizes: **0.5 mg, 2.5 mg**



Synonyms : A 9145, RP 32232

Specifications

CAS #	: 58944-73-3
Molecular Formula	: C ₁₅ H ₂₃ N ₇ O ₅
Molecular Weight	: 381.4
Source	: <i>Streptomyces</i> sp.
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Good water solubility.

Application Notes

Sinefungin, a polar nucleoside antifungal active with broad biological activity, was isolated from a number of species of *Streptomyces* in the early 1970s. Sinefungin acts by inhibiting a wide range of methyltransferases, including the methylation of bases in DNA and RNA which alters cytosine deamination and gene expression. Sinefungin is widely used as a bioprobe to block methyltransferase-dependent pathways.

References

1. A9145, a new adenine-containing antifungal antibiotic. I. Discovery and isolation. Hamil R.L. & Hoehn M.M. J. Antibiot. 1973, 26, 463.
2. Sinefungin, a potent inhibitor of S-adenosylmethionine protein O-methyltransferase. Borchardt R.T. et al. Biochem. Biophys. Res. Commun. 1979, 89, 919.

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