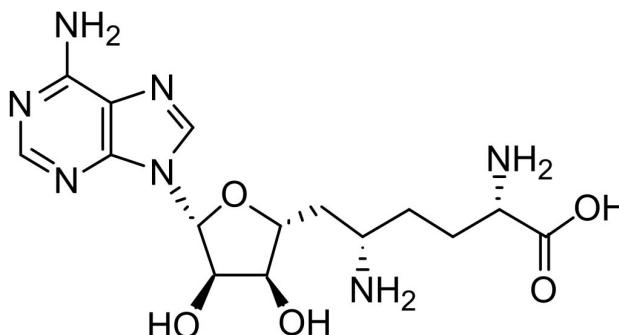


Sinefungin

Pack sizes.: 0.5mg, 2.5mg



Synonyms:

A 9145, RP 32232

Specifications

| | |
|-------------------|--|
| CAS # | : 58944-73-3 |
| Molecular Formula | : C15H23N7O5 |
| Molecular Weight | : 381.4 |
| Source | : - |
| 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.