

## Product Information

**Product ID** S3352

**CAS No.** 58944-73-3

**Chemical Name**

**Synonym** A 9145; Antibiotic A 9145; Antibiotic 32232RP; RP 32232; Adenosylornithine

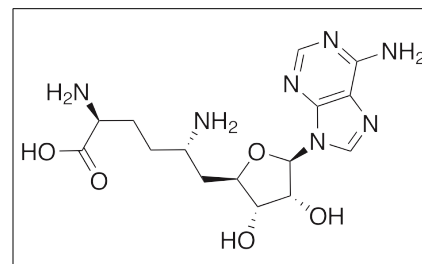
**Formula** C<sub>15</sub>H<sub>23</sub>N<sub>7</sub>O<sub>5</sub>

**Formula Wt.** 381.39

**Melting Point**

**Purity** ≥95%

**Solubility** soluble in water



## Pricing and Availability

**Bulk quantities available upon request**

Product ID	Size	List Price
S3352	1 mg	\$101.50
S3352	5 mg	\$353.10

**Store Temp** 4° C

**Ship Temp** Ambient

**Description** Sinefungin is a nucleoside analog of S-adenosylmethionine. Sinefungin exhibits antibacterial, antifungal, and anti-parasitic activities. This compound inhibits *Streptococcus* biofilm growth as well as growth and survival of *Trypanosoma* and *Leishmania*. Sinefungin and its derivatives inhibit methyltransferases and may display potential as epigenetic modifiers. Sinefungin is primarily used in research models to explore activity of S-adenosylmethionine.

**References** Yadav MK, Park SW, Chae SW, et al. Sinefungin, a natural nucleoside analogue of S-adenosylmethionine, inhibits *Streptococcus pneumoniae* biofilm growth. *Biomed Res Int.* 2014;2014:156987. PMID: 25050323.

Devkota K, Lohse B, Liu Q, et al. Analogues of the Natural Product Sinefungin as Inhibitors of EHMT1 and EHMT2. *ACS Med Chem Lett.* 2014 Jan 31;5(4):293-7. PMID: 24900829.

Niitsuma M, Hashida J, Iwatsuki M, et al. Sinefungin VA and dehydrosinefungin V, new antitrypanosomal antibiotics produced by *Streptomyces* sp. K05-0178. *J Antibiot (Tokyo).* 2010 Nov;63(11):673-9. PMID: 20859291.

Bachrach U, Schnur LF, El-On J, et al. Inhibitory activity of sinefungin and SIBA (5'-deoxy-5'-S-isobutylthio-adenosine) on the growth of promastigotes and amastigotes of different species of *Leishmania*. *FEBS Lett.* 1980 Dec 1;121(2):287-91. PMID: 6970144.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.