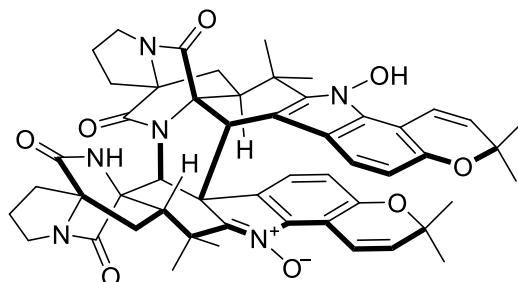


Stephacidin B

Code No.: **BIA-S1966**

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



Synonyms : (-)-Stephacidin B

Specifications

| | |
|-------------------|---|
| CAS # | : 360765-75-9 |
| Molecular Formula | : C ₅₂ H ₅₄ N ₆ O ₈ |
| Molecular Weight | : 891.02 |
| Source | : <i>Aspergillus</i> sp. |
| Appearance | : Green solid |
| Purity | : >95% by HPLC |
| Long Term Storage | : -20°C |
| Solubility | : Soluble in methanol or DMSO |

Application Notes

Stephacidin B, the dimer of avrainillamide, is a green pigment isolated from *Aspergillus ochraceus* and other *Aspergillus* sp.. Stephacidin B was reported as a potent antitumor active by Bristol Myers Squibb in 2002 against testosterone-independent PC3 and testosterone-sensitive LNCaP prostate cell lines with IC₅₀ of 0.47 and 0.06 μM, respectively. Stephacidin is active against sensitive and resistant ovarian, colon and breast cell lines. Stephacidin B is more potent and selective than its monomeric analogue, stephacidin A. Stephacidin B is rapidly converted to avrainillamide in cell culture.

References

1. The natural product avrainillamide binds to the oncoprotein nucleophosmin. Wulff J.E. et al. J Am Chem Soc .2007, 129, 14444.
2. Stephacidin A and B: Two structurally novel, selective inhibitors of the testosterone-dependent prostate LNCaP cells. Qian-Cutrone J. et al. J Am Chem Soc. 2002, 124, 14556.
3. Evidence for the rapid conversion of stephacidin B into the electrophilic monomer avrainillamide in cell culture. Wulff J.E. et al. J Am Chem Soc. 2007, 129, 4898.