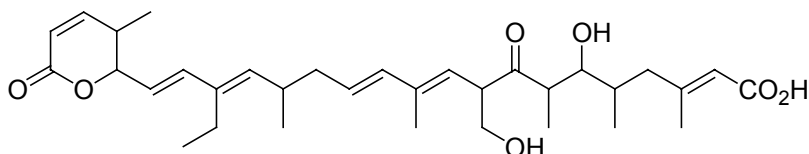


Kazusamycin A

Code: **BIA-K1042**

Pack sizes: **0.1 mg, 0.5 mg**



Synonyms : **Kazusamycin, Hydroxyleptomycin B, Hydroxyelactocin, Antibiotic CL 1957B, Antibiotic PD 114721**

Specifications

CAS # : **92090-94-3**
Molecular Formula : **C₃₃H₄₈O₇**
Molecular Weight : **556.7**
Source : ***Streptomyces* sp. MST-AS4898**
Appearance : **Colourless Film**
Purity : **> 95% by HPLC**
Long Term Storage : **-20°C**
Solubility : **Soluble in ethanol or methanol. Ethanol recommended. Unstable in DMSO.**

Application Notes

Kazusamycin A is a minor member of the leptomycin complex isolated from some *Streptomyces* species. It is an hydroxylated analogue of Leptomycin B, a nuclear export inhibitor. Kazusamycin A exhibits potent antitumour activity both *in vitro* and *in vivo* against P388 and L1210 cell lines and also shows strong antibacterial and antifungal activity.

References

1. Leptomycin B is an inhibitor of nuclear export: inhibition of nucleo-cytoplasmic translocation of the human immunodeficiency virus type 1 (HIV-1) Rev protein and Rev-dependent mRNA. Wolff B. et al. *Chem. Biol.* **1997**, 4, 139.
2. In vivo and in vitro anticancer activity of the structurally novel and highly potent antibiotic CI-940 and its hydroxy analog (PD 114,721). Roberts B.J. et al. *Cancer. Chemother. Pharmacol.* **1986**, 16, 95.
3. Antitumor activity of a new antibiotic, kazusamycin. Komiyama K. et al. *J. Antibiot.* **1985**, 38, 224.