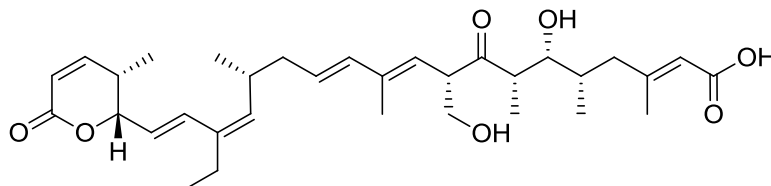


Kazusamycin A

Code No.: **BIA-K1042**

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



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

Specifications

CAS #	: 92090-94-3
Molecular Formula	: C₃₃H₄₈O₇
Molecular Weight	: 556.7
Source	: <i>Streptomyces</i> sp.
Appearance	: Colourless Film
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol or methanol. Poor water solubility. 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 antitumor 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.