

Product Name: Kazusamycin A

Product Number: K018

CAS Number: 92090-94-3

Molecular Formula: C₃₃H₄₈O₇

Molecular Weight: 556.7

Appearance: Colourless Film

Storage Conditions: -20°C

Description: 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.

Kazusamycin A is soluble in ethanol or methanol. Poor water solubility. Ethanol recommended. Unstable in DMSO.

References: 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.

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.

Antitumor activity of a new antibiotic, kazusamycin. Komiyama K., et al. , *J. Antibiot.*, 1985, 38, 224.