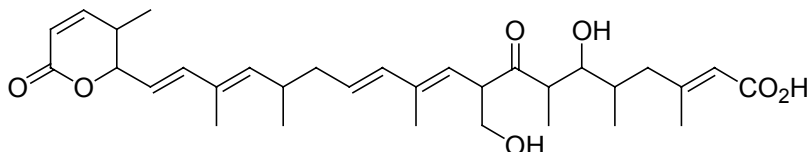


Kazusamycin B

Code: **BIA-K1043**

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



Synonyms : **Hydroxyleptomycin A, Antibiotic CL 1957E, Antibiotic PD 124895**

Specifications

CAS # : **107140-30-7**
Molecular Formula : **C₃₂H₄₆O₇**
Molecular Weight : **542.7**
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 B is a minor component of the leptomycin complex produced by some *Streptomyces* sp. It is an hydroxylated analogue of Leptomycin A, a nuclear export inhibitor. Kazusamycin B displays potent antitumour activity against L1210 and human colon adenocarcinoma and *in vivo* activity against P388 lymphocytic leukemia in mice. Kazusamycin B also possesses 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. The effect of kazusamycin B on the cell cycle and morphology of cultured L1210 cells. Takamiya K. et al. *J. Antibiot.* **1988**, 41, 1854.
3. PD 124,895 and PD 124,966, two new antitumor antibiotics. Hurley T.R. et al. *J. Antibiot.* **1986**, 39, 1651.