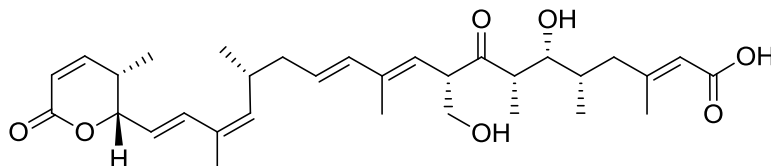


Kazusamycin B

Code No.: **BIA-K1043**

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



Synonyms : Hydroxyleptomycin A, CL 1957E, PD 124895, PD 124,895

Specifications

CAS #	: 107140-30-7
Molecular Formula	: C ₃₂ H ₄₆ O ₇
Molecular Weight	: 542.7
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 B is a minor component of the leptomycin complex produced by some *Streptomyces* sp. It is a hydroxylated analogue of leptomycin A, a nuclear export inhibitor. Kazusamycin B displays potent antitumor 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.