

Product Information

Kazusamycin A from *Streptomyces* sp.

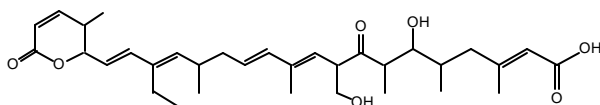
Product Number: **K 1764**
Storage: Temperature -20°C

Product Description

Cas # 92090-94-3
Molecular Weight: 556.7
Molecular formula: $\text{C}_{33}\text{H}_{48}\text{O}_7$

Kazusamycin A, an unsaturated branched chain fatty acid with a terminal lactone ring, is a hydroxy analog of Leptomycin B.¹ It has been reported that Kazusamycin A has a significant cytotoxic activity *in vitro* against a number of human and mouse tumor lines, which encompasses a wide range of tissue types.² Kazusamycin A has antitumor activity against experimental murine tumors.^{2,4} It is an inhibitor of nuclear export³ and inhibits Rev translocation, a regulatory gene product in the HIV genome, at nanomolar concentrations.³

Structure



Reagent

Purity: > 95% by HPLC

Precautions and Disclaimer

This product is for laboratory research use only, not for drug, household, or other uses. Please refer to the Material Safety Data Sheet (MSDS) for information regarding hazards and safe handling practices.

Preparation Instructions

Solubility

Kazusamycin A is soluble in MeOH, MeOH-water 7:3, DMSO, ethanol, and chloroform. It is insoluble in hexane and water.

Storage/Stability

The supplied unopened vial is stable for 2 years if stored at -20°C or below. A solution at $5\ \mu\text{g/ml}$ in 70% aqueous MeOH is stable for at least 2 months at -20°C (as determined by HPLC).

References

1. Komiyama, K., et al., J. Antibiot., **38**, 220-223 (1985).
2. Roberts, B.J., et al., Cancer Chemother. Pharmacol., **16**, 95-101 (1986).
3. Komiyama, K., et al., J. Antibiot., **38**, 224-229 (1985).
4. Yoshida, E., et al., J. Antibiot., **40**, 391-393 (1987).
5. Wang, Y., et al, Helv. Chim. Acta, **80**, 2157-2167(1997).

KAA/MB/SP/NDA 04/05

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