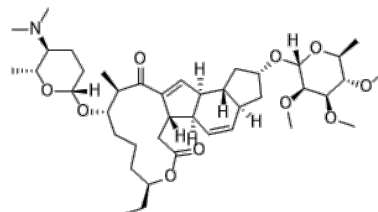


Product Name : Spinosyn A
Cat. No. : PC-27925
CAS No. : 131929-60-7
Molecular Formula : C₄₁H₆₅NO₁₀
Molecular Weight : 731.97
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

Spinosyn A is a polyketide insecticide in *Saccharopolyspora spinosa*, suppresses breast tumor cell proliferation and growth by binding to and activating Argininosuccinate synthase (ASS1), has potential inhibitory effects on a variety of cancer cells. Spinosyn A exerts anti-tumorigenic effects on progesterone-sensitive ER α -positive breast cancer cells by modulating multiple signaling pathways.

Spinosyn A inhibits the EGFR pathway in vitro and in vivo. Spinosyn A is the major component of spinosad.

References

- Kaniski AJ, et al. Biomed Pharmacother. 2024 Feb;171:116156.
Huang XY, et al. Bioorg Med Chem Lett. 2026 May;134:130537.
Zou Z, et al. Nat Commun. 2021 Apr 15;12(1):2263.
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Caution: Product has not been fully validated for medical applications. Lab Use Only!

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