LKT Laboratories, Inc.

Splitomicin

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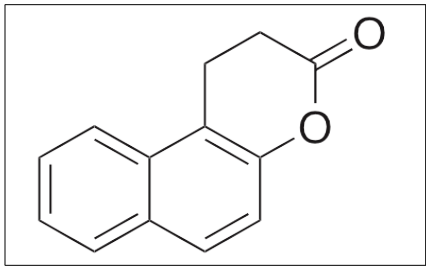
Product Information

Product ID S6247
CAS No. 5690-03-9
Chemical Name

Synonym

Formula $C_{13}H_{10}O_2$
Formula Wt. 198.22
Melting Point
Purity ≥98%
Solubility



Bulk quanitites available upon request

Product ID	Size
S6247	5 mg
S6247	10 mg
S6247	25 mg

Store Temp 4°C
Ship Temp Ambient

Description Splitomicin is a cell-permeable lactone that acts as an inhibitor of sirtuins 1 and 2 (SIRT1, SIRT2); sirtuins are considered class III histone deacetylases (HDACs). Splitomicin displays anti-inflammatory, antioxidative, and antithrombotic activities. In vitro, splitomicin promotes translocation of FOXO3a, decreasing cell motility and enhancing activity of paclitaxel. In neutrophils, splitomicin decreases production of superoxide anions, suppresses activation of ERK, and increases levels of cAMP. In other cellular models, this compound inhibits thrombin-induced platelet aggregation, preventing increases in thromboxane B2 (TxB2) and release of intracellular Ca2+; this compound may also inhibit phosphodiesterases. Splitomicin also alters RNA splicing activity.

References

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Bonezzi K, Belotti D, North BJ, et al. Inhibition of SIRT2 potentiates the anti-motility activity of taxanes: implications for antineoplastic combination therapies. Neoplasia. 2012 Sep;14(9):846-54. PMID: 23019416.

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