Ratjadone A (synthetic)

Represents a class of natural compounds, which inhibit proliferation in eukaryotes by blocking nuclear export. As potent as leptomycin B (Prod. No. ALX-380-100) and specific for G1/S checkpoint. Cytotoxic secondary metabolite (IC_{50}=50pg/ml in mouse cell line L929) that arrests tumor cells in the G1 phase at remarkably low concentrations (50pg/ml in HeLa cell line KB3.1). Inhibits the binding between the nuclear export signal (NES) of proteins and the chromosome maintenance region protein (CRM1). Anticancer compound. Belongs to the family of orphan ligands which include polyketides like leptomycin B, callystatin A and other related compounds.

Citations: 6 View Online »

Ordering Information

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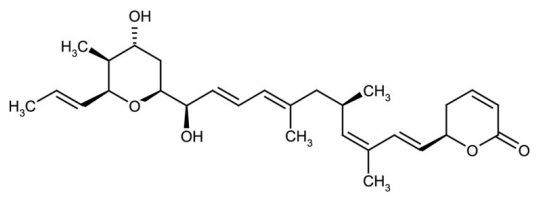
ALX-270-346-C002	2µg

Manuals, SDS & CofA

View Online »


OH
H3C
H3C
O
OH
CH3
CH3
CH3
O
O

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended. Sensitive to acids and bases. Unstable in acidic buffer systems (pH<6). Stable in substance as oil and in solution in methanol at -20°C.
Handling	Protect from light.
Long Term Storage	-20°C
Shipping	Dry Ice

Regulatory Status

RUO - Research Use Only

Product Details

Appearance	Clear liquid.
CAS	163564-92-9
Formula	$C_{28}H_{40}O_5$
Formulation	Solution in methanol.
Identity	Determined by MS, 1H- and 13C-NMR.
MW	456.6
Purity	≥95% (HPLC)
Solubility	Soluble in methanol (20mg/ml) or aqueous buffers (<100µM).
Source	Synthetic.

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