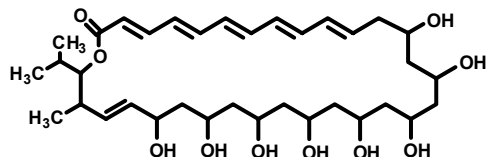


PRODUCT DATA SHEET

Product: RK-397

Cat. No: RK-397 (5 mg)



Chemical Name:

Oxo-polyene macrolide antibiotic.

Formula:

$C_{35}H_{56}O_{10}$

Molecular Weight: 637.39

Description:

RK-397 is cytotoxic to human leukemia cells (HL-60 and K-562). However, RK-397 is not a phosphatase inhibitor.

Format:

Supplied as a yellow powder.

Purification:

99.6% by HPLC at 360 nm

Inhibitory Data:

RK-397 is cytotoxic against human leukemia cells (HL-60 and K-562) at a concentration of 50 μ g/ml and induced bleb-formation on K-562 cells at concentrations over 0.05 μ g/ml.

Solubility:

Soluble in methanol, ethanol, and ethyl acetate. Insoluble in chloroform, acetone, and water. RK-397 can be dissolved in ethanol and then diluted into buffer or tissue culture medium. RK-397 is unstable in solution, however, so fresh stock solutions should be prepared immediately before use.

Storage and Stability:

Store in a tight, light-resistant container desiccated at or below 4°C. RK-397 is light-sensitive but the powder form is stable for at least two years if stored properly. RK-397 is unstable in solution, the double bonds at the 10 and 11 positions changing from the trans-isoform to the cis-isoform regardless of storage temperature.

References:

1. Kobinata, K. et al. (1993). RK-397, an new oxo pentaene antibiotic. J. Antibiotics, 46(10): 1616-1618.
2. Koshino, H. et al. (1993). Structure of RK-397, a new oxo pentaene antibiotic. J. Antibiotics, 46(10): 1619-1621.

Limitations:

For *in vitro* research use only. Not for use in diagnostics or in humans.

Warranty:

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.