Perifosine
Akt Inhibitor
Catalog # tlrl-peri
For research use only
Version # 12I26-MM

PRODUCT INFORMATION

Content:
• 5 mg Perifosine

Storage and stability:
- Perifosine is provided as a solid and shipped at room temperature. Store at -20°C. Solid product is stable 2 years at -20°C.
- Upon resuspension, prepare aliquots of perifosine and store at -20°C. Avoid repeated freeze-thaw cycles. Resuspended product is stable for 6 months when properly stored.

CHEMICAL PROPERTIES

Synonym: KRX-0401
CAS number: 157716-52-4
Formula: C25H52NO4P
Molecular weight: 461.66
Solubility: 50 mg/ml in water with warming
200 mg/ml in ethanol
Purity: >99% (NMR)
Working concentration: 5 - 50 μM

DESCRIPTION
Perifosine is an alkylphospholipid exhibiting antitumor activity. It induces cell cycle arrest and apoptosis through the inhibition of the serine-threonine protein kinase Akt (also known as protein kinase B)1. In addition, perifosine inhibits mTOR signaling through a different mechanism than classical mTOR inhibitors such as rapamycin2.


METHODS
Preparation of Perifosine stock solution (10 mM)
1. Add 1.083 ml water to 5 mg perifosine.
2. Vortex until complete solubilization.
3. Prepare aliquots and store stock solution at -20°C.

RELATED PRODUCTS

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<td>Everolimus (mTOR inhibitor)</td>
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<td>SB203580 (p38 MAP kinase &amp; Akt inhibitor)</td>
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Other signal transduction inhibitors are available, for more information visit www.invivogen.com/inhibitors