Perifosine

Akt Inhibitor Catalog # tlrl-peri

For research use only Version # 12I26-MM

PRODUCT INFORMATION

Content:

• 5 mg Perifosine

Storage and stability:

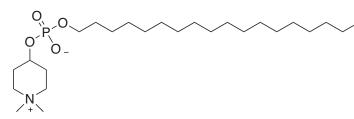
- Perifosine is provided as a solid and shipped at room temperature. Store at -20°C. Solid product is stable 2 years at -20°C.

- 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

<u>Purity:</u> >99% (NMR) <u>Working concentration:</u> 5 - 50 μM <u>Structure:</u>



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.

1. HideshimaT. *et al.*, **2006.** Perifosine, an oral bioactive novel alkylphospholipid, inhibits Akt and induces *in vitro* and *in vivo* cytotoxicity in human multiple myeloma cells. Blood. 107(10):4053-62.

2. Sun SY., 2010. Enhancing perifosine's anticancer efficacy by preventing autophagy. Autophagy. 2010 Jan;6(1):184-5.

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

Product	Catalog Code
Rapaymcin (mTOR inhibitor) Everolimus (mTOR inhibitor)	tlrl-rap tlrl-eve
SB203580 (p38 MAP kinase & Akt inhibitor)	tlrl-sb20

Other signal transduction inhibitors are available, for more information visit www.invivogen.com/inhibitors

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