



Product Information

Product ID P1969

CAS No. 157716-52-4

Chemical Name

Synonym KRX-0401

Formula $C_{25}H_{52}NO_4P$

Formula Wt. 461.66

Melting Point

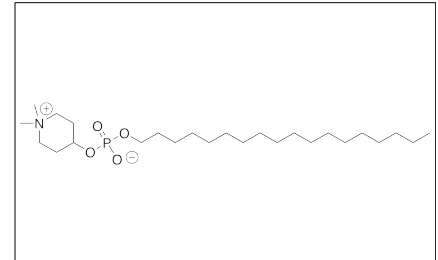
Purity $\geq 98\%$

Solubility Soluble in water (45 mg/mL). Soluble in ethanol (45 mg/mL). Soluble in chloroform, methanol.

Store Temp $-20^{\circ}C$

Ship Temp Ambient

Description Perifosine is an alkylphospholipid analog that exhibits anticancer chemotherapeutic and anti-inflammatory activities. Perifosine directly inhibits Akt by binding at multiple sites. In macrophages, perifosine inhibits LPS-induced increases in TNF- α and ERK activation and activates AMPK. In colorectal cancer, hepatocellular carcinoma, and multiple myeloma cells, perifosine induces apoptosis and inhibits growth; in clinical settings, perifosine enhances the anticancer activity of other chemotherapeutics.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
P1969	1 mg	\$77.20
P1969	5 mg	\$133.90
P1969	10 mg	\$200.70
P1969	25 mg	\$461.50

References Gradziel CS, Wang Y, Stec B, et al. Cytotoxic amphiphiles and phosphoinositides bind to two discrete sites on the Akt1 PH domain. *Biochemistry*. 2014 Jan 28;53(3):462-72. PMID: 24383815.

Shen J, Liang L, Wang C. Perifosine inhibits lipopolysaccharide (LPS)-induced tumor necrosis factor (TNF)- α production via regulation multiple signaling pathways: new implication for Kawasaki disease (KD) treatment. *Biochem Biophys Res Commun*. 2013 Jul 26;437(2):250-5. PMID: 23806687.

Richardson PG, Eng C, Kolesar J, et al. Perifosine, an oral, anti-cancer agent and inhibitor of the Akt pathway: mechanistic actions, pharmacodynamics, pharmacokinetics, and clinical activity. *Expert Opin Drug Metab Toxicol*. 2012 May;8(5):623-33. PMID: 22512706.

Fei HR, Chen G, Wang JM, et al. Perifosine induces cell cycle arrest and apoptosis in human hepatocellular carcinoma cell lines by blockade of Akt phosphorylation. *Cytotechnology*. 2010 Oct;62(5):449-60. PMID: 20842425.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.