BioVision

PRODUCT: CPI-613

ALTERNATE NAME: 6,8-Bis[(phenylmethyl)thio]octanoic acid

CATALOG #:

9464-10, 50

AMOUNT:

10 mg, 50 mg

STRUCTURE:



MOLECULAR FORMULA:	$C_{22}H_{28}O_2S_2$
MOLECULAR WEIGHT:	388.59
CAS NUMBER:	95809-78-2
APPEARANCE:	White solid
SOLUBILITY:	DMSO (>30 mg/ml) or EtOH (>20 mg/ml)
PURITY:	≥98% by HPLC
STORAGE:	Store at -20°C. Protect from air and light
DESCRIPTION:	CPI-613 is a non-redox active lipoate derivative that acts as a selective inhibitor mitochondrial enzymes pyruvate dehydrogenase (PDH) and α-ketoglutarate dehydrogenase. <i>In vitro</i> , CPI-613 dose-dependently and efficiently kills H460 human lung cancer cells and Saos-2 human sarcoma cells. <i>In vitro</i> , CPI-613 treatment potently disrupts H460 cancer cell mitochondrial metabolism including inhibition of PDH complex activity. CPI-613 treatment also leads to loss of mitochondrial membrane potential as assessed by JC-1 mitochondrial uptake. CPI-613 also induces apoptotic and non-apoptotic cell death in the cells of H460 human lung cancer and Saos-2 human sarcoma <i>in vitro</i> .
REFERENCES:	Solca, F.F., et al. (2004). J. Pharmacol. Exp. Ther. 311 , 502- 509.

 HANDLING:
 Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

USAGE:

Pyruvate dehydrogenase Activity Colorimetric Assay Kit (K679-100)

FOR RESEARCH CH USE ONLY! Not to be used in humans