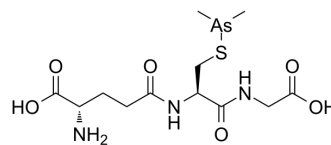


Darinaparsin

Cat. No.:	HY-14943		
CAS No.:	69819-86-9		
Molecular Formula:	C ₁₂ H ₂₂ AsN ₃ O ₆ S		
Molecular Weight:	411.31		
Target:	Apoptosis		
Pathway:	Apoptosis		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

H₂O : 62.5 mg/mL (151.95 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.4313 mL	12.1563 mL	24.3126 mL
	5 mM	0.4863 mL	2.4313 mL	4.8625 mL
	10 mM	0.2431 mL	1.2156 mL	2.4313 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Darinaparsin (ZIO-101), an organic arsenical, is a mitochondrial-targeted agent. Darinaparsin induces apoptosis in cancer cells, and has anticancer effects^[1].

In Vitro

Darinaparsin is cytotoxic to prostate cancer cell lines as well as fresh prostate cancer cells at low micromolar concentrations, and importantly inhibits the termed tumor-initiating cells (TIC) subpopulations^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Darinaparsin inhibits growth of the castrate-resistant Du145 prostate tumor propagated as xenograft in mice and inhibits the tumor-initiating potential of prostate cancer cells^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Nitu Bansal, et al. Darinaparsin inhibits prostate tumor-initiating cells and Du145 xenografts and is an inhibitor of hedgehog signaling. Mol Cancer Ther. 2015

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA