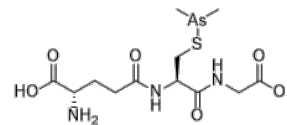


**Product Name** : Darinaparsin  
**Cat. No.** : PC-22902  
**CAS No.** : 69819-86-9  
**Molecular Formula** : C<sub>12</sub>H<sub>22</sub>AsN<sub>3</sub>O<sub>6</sub>S  
**Molecular Weight** : 411.30  
**Target** : Apoptosis Inducer  
**Solubility** : 10 mM in DMSO



## Biological Activity

Darinaparsin (ZIO-101) is a novel arsenical apoptosis inducer, induces apoptosis and oxidative stress to a greater extent than As(2)O(3), within c-Jun NH(2)-terminal kinase-dependent.

Darinaparsin is significantly more potent than As(2)O(3) at mediating apoptosis in various malignant cell lines and is highly active against APL cells derived for As(2)O(3) resistance.

Darinaparsin does not induce promyelocytic leukemia/retinoic acid receptor alpha (PML/RAR alpha) degradation or rearrange PML nuclear bodies in APL cells.

Darinaparsin efficiently kills tumor cells with increased antioxidant capacity and drug exporters.

## References

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Quintás-Cardama A, et al. Anticancer Agents Med Chem. 2008 Dec;8(8):904-9.

Diaz Z, et al. Leukemia. 2008 Oct;22(10):1853-63.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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