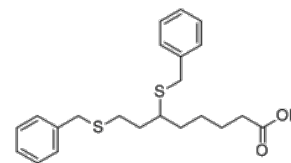


**Product Name** : Devimistat  
**Cat. No.** : PC-38723  
**CAS No.** : 95809-78-2  
**Molecular Formula** : C<sub>22</sub>H<sub>28</sub>O<sub>2</sub>S<sub>2</sub>  
**Molecular Weight** : 388.584  
**Target** : Apoptosis Inducer  
**Solubility** : 10 mM in DMSO



### Biological Activity

CPI-613 (Devimistat) is an antimetochondrial metabolism agent that specifically induces inactivating phosphorylation of tumor cell PDH via stimulation of **PDKs** 1 to 4, inhibits **KGDH** function strongly and rapidly, selectively in tumor cells. CPI-613 down-regulated the expression of Cyclin D3, E1, E2, F, A2, B1 and CDK2 genes of BxPC-3 pancreatic cancer cells but not non-transformed NIH-3T3 mouse fibroblast cells. CPI-613 induced a correspondingly rapid, powerful redox signal in tumor cell mitochondria. CPI-613 demonstrated tumor growth inhibition in human xenograft mouse models.

### References

- Stuart SD, et al. *Cancer Metab.* 2014 Mar 10;2(1):4.  
Pardee TS, et al. *Clin Cancer Res.* 2014 Oct 15;20(20):5255-64.  
Lee KC, et al. *Ann Transl Med.* 2014 Sep;2(9):91.

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

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