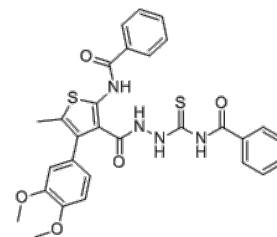


**Product Name** : SIC-19  
**Cat. No.** : PC-22043  
**CAS No.** : 713112-69-7  
**Molecular Formula** : C<sub>29</sub>H<sub>26</sub>N<sub>4</sub>O<sub>5</sub>S<sub>2</sub>  
**Molecular Weight** : 574.67  
**Target** : Salt Inducible Kinase (SIK)  
**Solubility** : 10 mM in DMSO



CAS: 713112-69-7

## Biological Activity

SIC-19 is a potent, selective **SIK2** inhibitor, promotes SIK2 protein degradation via the ubiquitination pathway, exhibits synthetic lethality with PARP inhibitors in ovarian cancer.

potently inhibits six ovarian cancer cell lines with IC<sub>50</sub> values ranging from 2.13 μM to 9.74 μM.

SIC-19 significantly enhances response to PARP inhibitors in ovarian cancer cell lines, ovarian cancer organoids and xenograft models.

SIC-19 decreases the phosphorylation of RAD50 and blocks the nuclear translocation of RAD50, impairs nuclear filament assembly and DNA repair.

SIC-19 alone significantly inhibited tumor growth in SKOV3 xenografts, the combination of SIC-19 and olaparib demonstrates even greater inhibition of tumor growth than either single agent alone.

## References

Fang Wang, et al. *Drug Resist Updat.* 2024 Mar 6:74:101077.

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

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