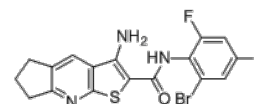


**Product Name** : DC\_AC50  
**Cat. No.** : PC-61245  
**CAS No.** : 497061-48-0  
**Molecular Formula** : C<sub>17</sub>H<sub>12</sub>BrF<sub>2</sub>N<sub>3</sub>OS  
**Molecular Weight** : 424.264  
**Target** : Other Targets  
**Solubility** : 10 mM in DMSO



2. Karginova O, et al. *Mol Cancer Ther.* 2019 Mar  
1. pii: molcanther.0667.2018.

## Biological Activity

DC\_AC50 (DCAC50) is a small molecule that inhibits the human **copper chaperones Atox1 and CCS** (K<sub>d</sub>=6.8 and 8.2 μM), blocks copper trafficking and significantly attenuates cancer cell proliferation.

DC\_AC50 induces cellular reactive oxygen species (ROS) accumulation and reduces cellular ATP production, induces mitochondria defects and decreases lipid biosynthesis through AMPK activation.

DC\_AC50 suppresses tumour growth effectively without affecting normal tissues in mice.

## References

Wang J, et al. *Nat Chem.* 2015 Dec;7(12):968-79.

