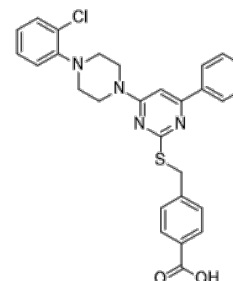


**Product Name** : Sulfiredoxin inhibitor J14  
**Cat. No.** : PC-26685  
**CAS No.** : 1043854-13-2  
**Molecular Formula** : C<sub>28</sub>H<sub>25</sub>ClN<sub>4</sub>O<sub>2</sub>S  
**Molecular Weight** : 517.04  
**Target** : Other Targets  
**Solubility** : 10 mM in DMSO



## Biological Activity

J14 is a potent, reversible sulfiredoxin (Srx) inhibitor with IC<sub>50</sub> of 8.1 μM.

J14 increased the accumulation of sulfinic peroxiredoxins and ROS, which led to oxidative mitochondrial damage and caspase activation, resulting in the death of A549 human lung adenocarcinoma cells.

J14 rendered tumorigenic ovarian cells more susceptible to ROS-mediated death compared with nontumorigenic cells and significantly suppressed the growth of A549 xenografts without acute toxicity.

## References

Kim H, et al. Free Radic Biol Med. 2016 Feb;91:264-74.

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

E-mail: tech@probechem.com