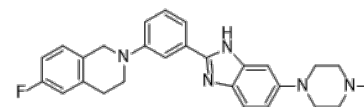


**Product Name** : NCOA4-FTH1 inhibitor 9a  
**Cat. No.** : PC-22833  
**CAS No.** : 2650557-72-3  
**Molecular Formula** : C<sub>27</sub>H<sub>28</sub>N<sub>5</sub>  
**Molecular Weight** : 441.55  
**Target** : Ferroptosis  
**Solubility** : 10 mM in DMSO



CAS: 2650557-72-3

## Biological Activity

NCOA4-FTH1 inhibitor 9a is a new ferroptosis inhibitor through disrupting the NCOA4-FTH1 protein-protein interaction, reduces intracellular ferrous iron, inhibits Erastin-induced ferroptosis with EC<sub>50</sub> of 0.29 μM in HT22 cells.

NCOA4-FTH1 inhibitor 9a directly binds to recombinant protein NCOA4383–522 (K<sub>d</sub>=7.48 μM) and effectively blocks the NCOA4383–522–FTH1 interaction.

NCOA4-FTH1 inhibitor 9a significantly ameliorates the ischemic-refusion injury in rat model of ischemic stroke.

NCOA4-FTH1 inhibitor 9a is a selective ferroptosis inhibitor that effectively suppresses lipid peroxidation and rescues cells from ferroptosis.

NCOA4-FTH1 inhibitor 9a inhibits lysosomal ferritin degradation and localizes in autophagosomes. effectively blocks RSL3-induced ferroptosis in HT22 cells (EC<sub>50</sub> = 3.66 μM).

## References

Fang Y, et al. ACS Cent Sci. 2021 Jun 23;7(6):980-989.

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

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