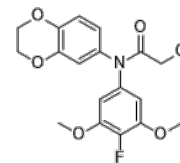


**Product Name** : GPX4 inhibitor C18  
**Cat. No.** : PC-26934  
**CAS No.** : 2922824-09-5  
**Molecular Formula** : C<sub>18</sub>H<sub>17</sub>ClFNO<sub>5</sub>  
**Molecular Weight** : 381.78  
**Target** : Ferroptosis  
**Solubility** : 10 mM in DMSO



CAS: 2922824-09-5

## Biological Activity

GPX4 inhibitor C18 (GPX4-IN-5) is a covalent inhibitor of glutathione peroxidase 4 (GPX4), shows remarkable inhibitory activity against TNBC cells with IC<sub>50</sub> of 10-75 nM.

C18 notably induces ferroptosis with high selectivity by increasing the accumulation of lipid peroxides (LPOs) in cells.

C18 covalently binds to the Sec46 of GPX4.

C18 exhibited tumor growth inhibition in the MDA-MB-231 xenograft model with a TGI value of 81.0% at 20 mg/kg without obvious toxicity.

## References

Tingting Chen, et al. J Med Chem. 2023 Jul 27;66(14):10036-10059.

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

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