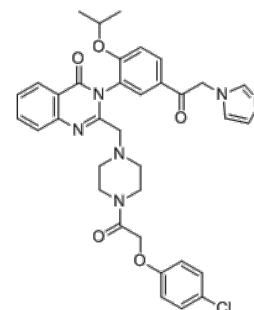


**Product Name** : Imidazole ketone erastin  
**Cat. No.** : PC-36116  
**CAS No.** : 1801530-11-9  
**Molecular Formula** : C<sub>35</sub>H<sub>35</sub>ClN<sub>6</sub>O<sub>5</sub>  
**Molecular Weight** : 655.152  
**Target** : Ferroptosis  
**Solubility** : 10 mM in DMSO



## Biological Activity

Imidazole ketone erastin (IKE, Ferroptosis inducer IKE) is a potent, metabolically stable inhibitor of system xc- and inducer of **ferroptosis** potentially suitable for in vivo applications.

Imidazole ketone erastin (IKE) potently reduces DLBCL cell number with IC<sub>50</sub> of <100 nM (SUDHL6 cell IC<sub>50</sub>=1 nM).

Imidazole ketone erastin (IKE) exerts antitumor effect by inhibiting system xc-, leading to glutathione depletion (GSH depletion IC<sub>50</sub>=34 nM, SUDHL6 cells), lipid peroxidation, and the induction of ferroptosis biomarkers both in vitro and in vivo, induced lipid peroxidation in tumor tissue.

## References

Zhang Y, et al. *Cell Chem Biol.* 2019 Jan 31. pii: S2451-9456(19)30030-3.

Larraufie MH, et al. *Bioorg Med Chem Lett.* 2015 Nov 1;25(21):4787-4792.

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

E-mail: tech@probechem.com