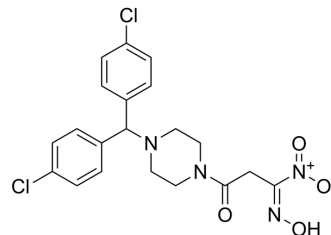


## JKE-1716

Cat. No.:	HY-139001		
CAS No.:	2421118-05-8		
Molecular Formula:	C <sub>20</sub> H <sub>20</sub> Cl <sub>2</sub> N <sub>4</sub> O <sub>4</sub>		
Molecular Weight:	451.3		
Target:	Glutathione Peroxidase; Ferroptosis		
Pathway:	Metabolic Enzyme/Protease; Apoptosis		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



### BIOLOGICAL ACTIVITY

Description	JKE-1716 is a potent and selective nitrolic acid-containing GPX4 inhibitor. JKE-1716 is able of inducing ferroptosis selectively through covalent GPX4 inhibition <sup>[1]</sup> .		
IC <sub>50</sub> & Target	GPX4 <sup>[1]</sup> ; Ferroptosis <sup>[1]</sup>		
In Vitro	JKE-1716 (0~100 nM; 72 hours; LOX-IMVI cells) inhibits cell viability <sup>[1]</sup> .		
	JKE-1716 (LOX-IMVI cells) inhibits the expression of α-GPX4 <sup>[1]</sup> .		
	MCE has not independently confirmed the accuracy of these methods. They are for reference only.		
	Cell Viability Assay <sup>[1]</sup>		
	Cell Line:	LOX-IMVI cells	
Concentration:	0~100 nM		
Incubation Time:	72 hours		
Result:	Inhibited cell viability.		

### REFERENCES

[1]. Eaton JK, et al. Selective covalent targeting of GPX4 using masked nitrile-oxide electrophiles. Nat Chem Biol. 2020;16(5):497-506.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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