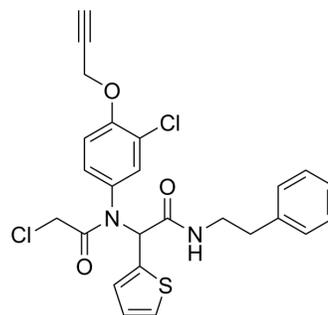


## ML162-yne

<b>Cat. No.:</b>	HY-153748		
<b>CAS No.:</b>	2883115-46-4		
<b>Molecular Formula:</b>	C <sub>25</sub> H <sub>22</sub> Cl <sub>2</sub> N <sub>2</sub> O <sub>3</sub> S		
<b>Molecular Weight:</b>	501.42		
<b>Target:</b>	Glutathione Peroxidase		
<b>Pathway:</b>	Metabolic Enzyme/Protease		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (199.43 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
<b>Preparing Stock Solutions</b>	<b>1 mM</b>	1.9943 mL	9.9717 mL	19.9434 mL
	<b>5 mM</b>	0.3989 mL	1.9943 mL	3.9887 mL
	<b>10 mM</b>	0.1994 mL	0.9972 mL	1.9943 mL
Please refer to the solubility information to select the appropriate solvent.				
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.99 mM); Clear solution			

### BIOLOGICAL ACTIVITY

<b>Description</b>	ML162-yne is a potent GPX4-inhibitor affinity probe <sup>[1]</sup> . ML162-yne is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAC) with molecules containing Azide groups.
<b>IC<sub>50</sub> &amp; Target</b>	GPX4 <sup>[1]</sup>

### REFERENCES

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

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

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