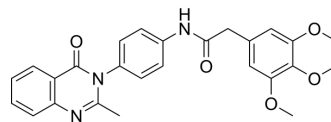


## icFSP1

Cat. No.:	HY-157068		
CAS No.:	1115910-36-5		
Molecular Formula:	C <sub>26</sub> H <sub>25</sub> N <sub>3</sub> O <sub>5</sub>		
Molecular Weight:	459.49		
Target:	Ferroptosis		
Pathway:	Apoptosis		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (217.63 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.1763 mL	10.8816 mL	21.7633 mL
		5 mM	0.4353 mL	2.1763 mL	4.3527 mL
10 mM		0.2176 mL	1.0882 mL	2.1763 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (5.44 mM); Clear solution; Need ultrasonic				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (5.44 mM); Clear solution; Need ultrasonic				

### BIOLOGICAL ACTIVITY

Description	icFSP1 is a potent ferroptosis suppressor protein-1 (FSP1) inhibitor. icFSP1 does not competitively inhibit FSP1 enzyme activity, but instead triggers subcellular relocalization of FSP1 from the membrane and FSP1 condensation before ferroptosis induction, in synergism with GPX4 inhibition <sup>[1]</sup> .
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### REFERENCES

[1]. Toshitaka Nakamura, et al. Phase separation of FSP1 promotes ferroptosis. Nature. 2023 Jul;619(7969):371-377.

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

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