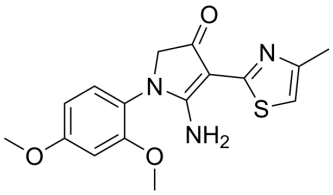
viFSP1

Cat. No.:	HY-163002		
CAS No.:	951945-67-8		
Molecular Formula:	$C_{16}H_{17}N_3O_3S$		
Molecular Weight:	331.39		
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 : 50 mg/mL (150.88 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.0176 mL	15.0880 mL	30.1759 mL
	5 mM	0.6035 mL	3.0176 mL	6.0352 mL
	10 mM	0.3018 mL	1.5088 mL	3.0176 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 (7.54 mM); Clear solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: 2.5 mg/mL (7.54 mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description

viFSP1 is a species-independent inhibitor of FSP1 that induces ferroptosis in FSP1-dependent cells. viFSP1 targets the highly conserved NAD(P)H binding pocket of FSP1 and directly inhibits FSP1. viFSP1 induces lipid peroxidation and has anticancer activity[1].

IC_{50} & Target

FSP1[1]

REFERENCES

[1]. Nakamura T et al. Integrated chemical and genetic screens unveil FSP1 mechanisms of ferroptosis regulation. Nat Struct Mol Biol. 2023 Nov;30(11):1806-1815.

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