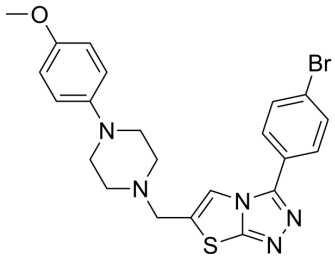
FSEN1

Cat. No.:	HY-153629
CAS No.:	862808-01-3
Molecular Formula:	$C_{22}H_{22}BrN_5OS$
Molecular Weight:	484.41
Target:	Ferroptosis
Pathway:	Apoptosis
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 5 mg/mL (10.32 mM; ultrasonic and warming and heat to 60°C)

DMF : ≥ 1 mg/mL (2.06 mM)

* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions

Mass / Solvent / Concentration	1 mg	5 mg	10 mg
1 mM	2.0644 mL	10.3218 mL	20.6437 mL
5 mM	0.4129 mL	2.0644 mL	4.1287 mL
10 mM	0.2064 mL	1.0322 mL	2.0644 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

FSEN1 is a potent and non-competitive FSP1 inhibitor with an IC_{50} value of 313 nM. FSEN1 triggers iron death in cancer cells by inhibiting FSP1. FSEN1 can be used in research of cancer[1].

In Vitro

FSEN1 (0-15 μM; $H460^C$ Cas9 cells) is synthetic lethal with GPX4 inhibitors and sensitizes cancer cells to ferroptosis through inhibition of FSP1[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Hendricks JM, et, al. Identification of structurally diverse FSP1 inhibitors that sensitize cancer cells to ferroptosis. Cell Chem Biol. 2023 May 4:S2451-9456(23)00114-9.

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

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