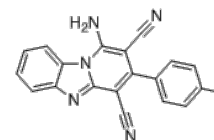


Product Name : iFSP1
Cat. No. : PC-38437
CAS No. : 150651-39-1
Molecular Formula : C₂₀H₁₃N₅
Molecular Weight : 323.35
Target : Ferroptosis
Solubility : 10 mM in DMSO



Biological Activity

iFSP1 (FSP1 inhibitor) is a potent, selective and glutathione-independent inhibitor of ferroptosis suppressor protein 1 (FSP1, AIFM2) with IC₅₀ of 103 nM.

iFSP1 selectively induces ferroptosis in GPX4-knockout cells which overexpressed FSP1.

iFSP1 is able to sensitize a variety of human cancer cell lines to the ferroptosis inducer.

iFSP1 inhibits the Gpx4-knockout cell growth as a dose-dependent manner, but does not inhibit the wild type cell growth.

iFSP1 sensitizes KEAP1 deficient lung cancer cells to radiation by inducing ferroptosis.

References

Doll S, et al. FSP1 is a glutathione-independent ferroptosis suppressor. *Nature*. 2019 Nov;575(7784):693-698.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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