

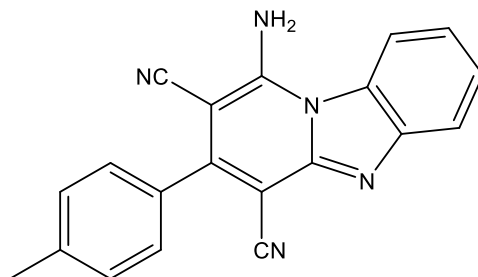
Catalog #10-5043

iFSP1

CAS# 150651-39-1

1-Amino-3-(4-methylphenyl)pyrido[1,2-a]benzimidazole-2,4-dicarbonitrile

Lot # E109387



Inhibits ferroptosis suppressor protein 1, inducing ferroptosis.¹ iFSP1 synergizes with GPX4 inhibitors to initiate ferroptosis in cancer cells.¹ It potently induced ferroptosis, which promoted innate and adaptive anti-tumor immune responses, in human hepatocellular carcinoma cells which overexpress FSP1.² A useful tool for establishing ferroptotic cells in Alzheimer's disease models.³

- 1) Doll *et al.* (2019), *FSP1 is a glutathione-independent ferroptosis suppressor*; Nature **575** 693
- 2) Cheu *et al.* (2023), *Ferroptosis Suppressor Protein 1 Inhibition Promotes Tumor Ferroptosis and Anti-tumor Immune Responses in Liver Cancer*; Cell Mol. Gastroenterol. Hepatol. **16** 133
- 3) Yong *et al.* (2024), *Penthorum chinense Pursh inhibits ferroptosis in cellular and Caenorhabditis elegans models of Alzheimer's disease*; Phytomedicine **127** 155463

PHYSICAL DATA

Molecular Weight:	323.36
Molecular Formula:	C ₂₀ H ₁₃ N ₅
Purity:	>98% (TLC)
	NMR: (Conforms)
Solubility:	DMSO (6 mg/mL)
Physical Description:	Yellow solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 1 month.

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