

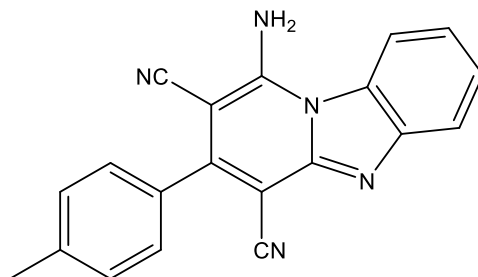
**Catalog #10-5043**

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

- 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 <sub>20</sub> H <sub>13</sub> N <sub>6</sub>
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.

**Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.**

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

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