

**Product Name:** iFSP1

**Catalog No.:** 7162

**Batch No.:** 1

CAS Number: 150651-39-1

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

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>20</sub>H<sub>13</sub>N<sub>5</sub>·¼H<sub>2</sub>O

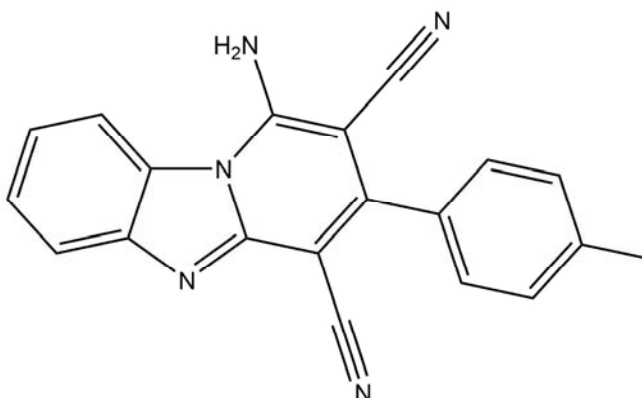
**Batch Molecular Weight:** 327.86

**Physical Appearance:** Yellow solid

**Solubility:** DMSO to 20 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.8% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon Hydrogen Nitrogen		
Theoretical	73.27	4.15	21.36
Found	73	4	21.32

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors

Tel:+1 612 379 2956

**Product Name:** iFSP1

**Catalog No.:** 7162

**Batch No.:** 1

CAS Number: 150651-39-1

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

**Description:**

Ferroptosis inducer. Inhibits ferroptosis suppressor protein 1 (FSP1) and induces ferroptosis in GPX4 knockout cells. Sensitizes tumor cells to RSL3 (Cat. No. 6118) -induced ferroptosis.

**Physical and Chemical Properties:**

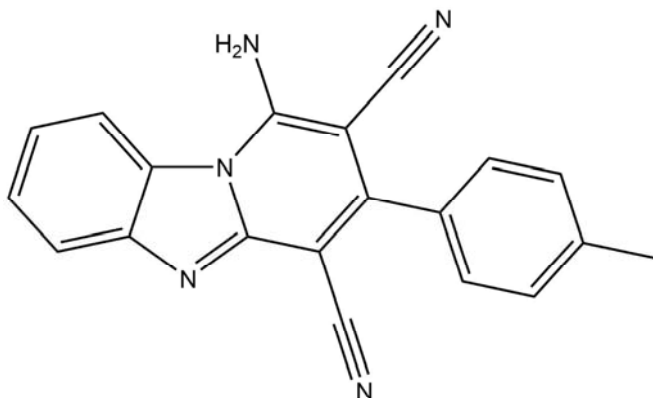
Batch Molecular Formula: C<sub>20</sub>H<sub>13</sub>N<sub>5</sub>.¼H<sub>2</sub>O

Batch Molecular Weight: 327.86

Physical Appearance: Yellow solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 20 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Bersuker et al** (2019) The CoQ oxidoreductase FSP1 acts parallel to GPX4 to inhibit ferroptosis. *Nature* **575** 688. PMID: 31634900.

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors

Tel:+1 612 379 2956