

**Product Name:** FSEN 1

**Catalog No.:** 7941

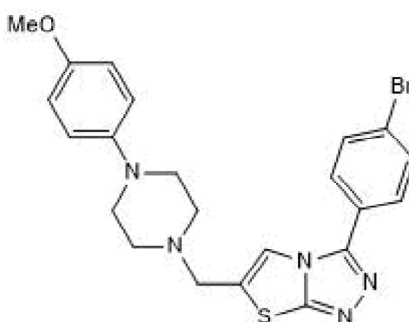
**Batch No.:** 1

CAS Number: 862808-01-3

IUPAC Name: 3-(4-Bromophenyl)-6-((4-(4-methoxyphenyl)piperazin-1-yl)methyl)thiazolo[2,3-c][1,2,4]triazole

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>22</sub>H<sub>22</sub>BrN<sub>5</sub>OS.  
**Batch Molecular Weight:** 484.42  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 20 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 98.8% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	54.55	4.58	14.46
Found	54.61	4.56	14.47

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

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**Description:**

FSEN1 is a ferroptosis suppressor protein 1 (FSP1) inhibitor (IC<sub>50</sub> = 313 nM). FSEN1 sensitises lung cancer cells and organoids to ferroptosis (EC<sub>50</sub> = 69nM) through inhibition of FSP1. Inhibits FSP1 CoQ1 oxidoreductase activity (IC<sub>50</sub> = 688 nM).

**Physical and Chemical Properties:**

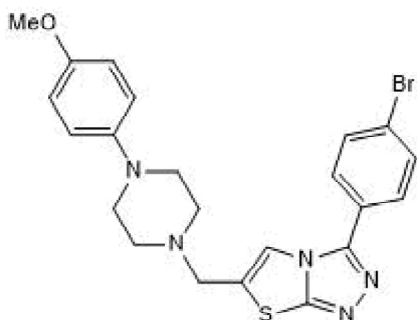
Batch Molecular Formula: C<sub>22</sub>H<sub>22</sub>BrN<sub>5</sub>OS.

Batch Molecular Weight: 484.42

Physical Appearance: White 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. \*Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

**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:**

**Hendricks *et al*** (2023) Identification of structurally diverse FSP1 inhibitors that sensitize cancer cells to ferroptosis. *Cell Chem.Biol.* **30** 1090. PMID: 37178691.

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