

**Product Name:** Erastin

**Catalog No.:** 5449

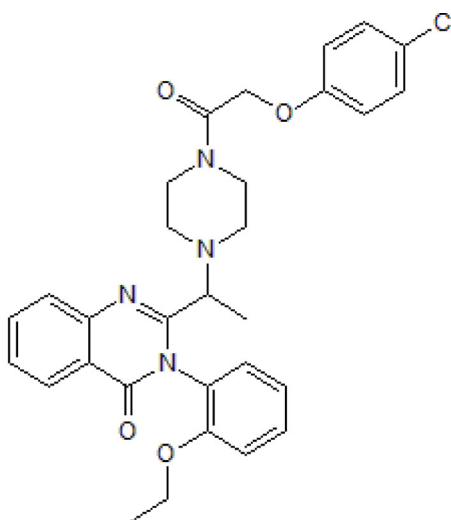
**Batch No.:** 2

CAS Number: 571203-78-6

IUPAC Name: 2-[1-[4-[2-(4-Chlorophenoxy)acetyl]-1-piperazinyl]ethyl]-3-(2-ethoxyphenyl)-4(3*H*)-quinazolinone

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>30</sub>H<sub>31</sub>ClN<sub>4</sub>O<sub>4</sub>  
**Batch Molecular Weight:** 547.04  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 20 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.5% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	65.87	5.71	10.24
Found	65.75	5.69	10.12

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

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**Description:**

Erastin is an antitumor agent; selective for cells expressing oncogenic RAS. Activates ferroptosis; induces oxidative, non-apoptotic cell death in tumors by modulating mitochondrial voltage-dependent anion channels (VDAC). Cell permeable.

**Physical and Chemical Properties:**

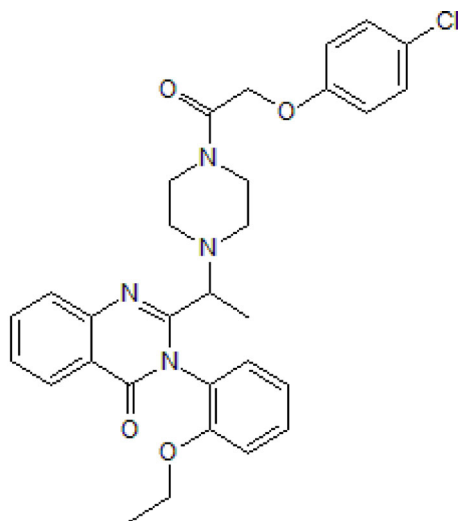
Batch Molecular Formula: C<sub>30</sub>H<sub>31</sub>ClN<sub>4</sub>O<sub>4</sub>

Batch Molecular Weight: 547.04

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:**

**Dixon et al** (2012) Ferroptosis: an iron-dependent form of nonapoptotic cell death. *Cell* **149** 1060. PMID: 22632970.

**Yagoda et al** (2007) RAS-RAF-MEK-dependent oxidative cell death involving voltage-dependent anion channels. *Nature* **447** 864. PMID: 17568748.

**Dolma et al** (2003) Identification of genotype-selective antitumor agents using synthetic lethal chemical screening in engineered human tumor cells. *Cancer Cell* **3** 285. PMID: 12676586.

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