

Product Name: Erastin

Catalog No.: 5449

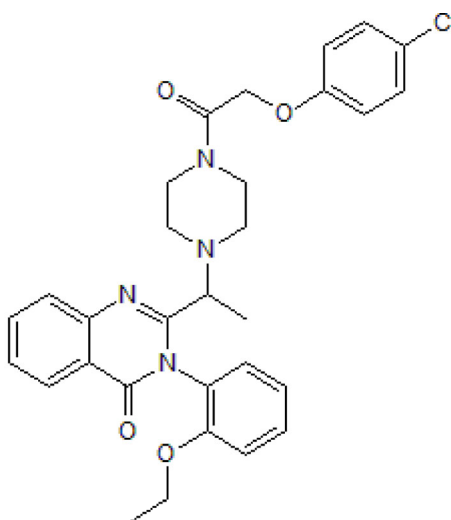
Batch No.: 3

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: C₃₀H₃₁ClN₄O₄
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 99.2% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 65.87 | 5.71 | 10.24 |
| Found | 65.87 | 5.7 | 10.24 |

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:

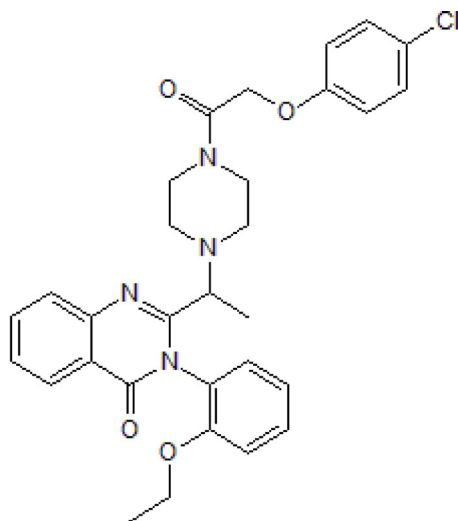
Batch Molecular Formula: C₃₀H₃₁ClN₄O₄

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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