



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC Handels GmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

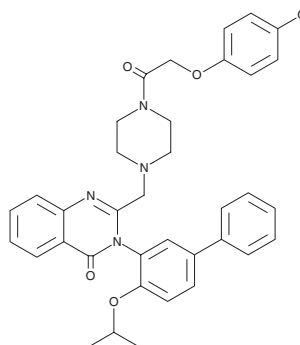
# PRODUCT INFORMATION



## Erastin2

Item No. 27087

**CAS Registry No.:** 1695533-44-8  
**Formal Name:** 2-[[4-[2-(4-chlorophenoxy)acetyl]-1-piperazinyl]methyl]-3-[4-(1-methylethoxy)[1,1'-biphenyl]-3-yl]-4(3H)-quinazolinone  
**Synonym:** 35MEW28  
**MF:** C<sub>36</sub>H<sub>35</sub>ClN<sub>4</sub>O<sub>4</sub>  
**FW:** 623.1  
**Purity:** ≥98%  
**Supplied as:** A crystalline solid  
**Storage:** -20°C  
**Stability:** ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

### Laboratory Procedures

Erastin2 is supplied as a crystalline solid. A stock solution may be made by dissolving the erastin2 in the solvent of choice. Erastin2 is soluble in organic solvents such as DMSO and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of erastin2 in these solvents is approximately 1 and 10 mg/ml, respectively.

Erastin2 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, erastin2 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. Erastin2 has a solubility of approximately 0.25 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

### Description

Erastin2 is a ferroptosis inducer and an inhibitor of the system x<sub>c</sub><sup>-</sup> cystine/glutamate transporter.<sup>1,2</sup> It inhibits glutamate release in CCF-STTG1 cells (IC<sub>50</sub> = 0.0035 μM).<sup>2</sup> It induces cell death in HAP1 cells when used at a concentration of 5 μM, an effect that can be blocked by the ferroptosis inhibitor ferrostatin-1 (Item No. 17729) or deferoxamine (Item No. 14595).<sup>1</sup> Erastin2 also induces ferroptotic cell death in HT-1080 cells (EC<sub>50</sub> = 0.15 μM), an effect that can be blocked by the reducing agent β-mercaptoethanol (EC<sub>50</sub> = >20 μM).<sup>3</sup> It increases lipid peroxidation in HT-1080 cells when used at a concentration of 1 μM.

### References

1. Cao, J.Y., Poddar, A., Magtanong, L., *et al.* A genome-wide haploid genetic screen identifies regulators of glutathione abundance and ferroptosis sensitivity. *Cell Rep.* **26(6)**, 1544-1556 (2019).
2. Dixon, S.J., Patel, D.N., Welsch, M., *et al.* Pharmacological inhibition of cystine-glutamate exchange induces endoplasmic reticulum stress and ferroptosis. *Elife* **3**, e02523 (2014).
3. Magtanong, L., Ko, P.-J., To, M., *et al.* Exogenous monounsaturated fatty acids promote a ferroptosis-resistant cell state. *Cell Chem. Biol.* **26(3)**, 420-432 (2019).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

#### WARRANTY AND LIMITATION OF REMEDY

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 03/08/2021

#### CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD  
ANN ARBOR, MI 48108 · USA

**PHONE:** [800] 364-9897  
[734] 971-3335

**FAX:** [734] 971-3640

CUSTSERV@CAYMANCHEM.COM  
WWW.CAYMANCHEM.COM