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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

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

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

mail@szabo-scandic.com

www.szabo-scandic.com

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

PRODUCT INFORMATION



Ferroptocide

Item No. 39005

CAS Registry No.: 2505218-38-0
Formal Name: (2S,3aS,4S,5R,7R,8S,8aS,9R)-octahydro-2,8a-dihydroxy-4,8,9-trimethyl-1-oxo-5-(2,3,5,8-tetrahydro-1,3-dioxo-2-phenyl-1H-[1,2,4]triazolo[1,2-a]pyridazin-6-yl)-1H-3a,8-propanoazulen-7-yl ester, 2-chloro-acetic acid

MF: C₃₀H₃₆ClN₃O₇

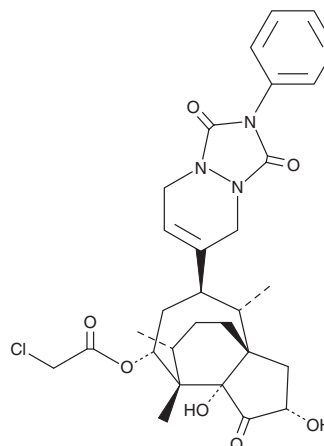
FW: 586.1

Purity: ≥90%

Supplied as: A solid

Storage: -20°C

Stability: ≥4 years



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

Laboratory Procedures

Ferroptocide is supplied as a solid. A stock solution may be made by dissolving the ferroptocide in the solvent of choice, which should be purged with an inert gas. Ferroptocide is soluble in DMSO and methanol.

Description

Ferroptocide is an inhibitor of thioredoxin (Trx) and a derivative of pleuromutilin (Item No. 19452).¹ It inhibits Trx activity in ES-2 ovarian cancer cells when used at a concentration of 20 μM and is cytotoxic to ES-2 cells (IC₅₀ = 1.6 μM). Ferroptocide (5 μM) induces ferroptosis in ES-2 cells, an effect that can be blocked by the iron chelator deferoxamine (DFO; Item No. 14595), antioxidant Trolox (Item No. 10011659), or ferroptosis inhibitor ferrostatin-1 (Item No. 17729). It decreases tumor volume in a 4T1 murine mammary carcinoma model using immunocompetent but not immunodeficient mice when administered at 50 mg/kg twice per week.

Reference

1. Llabani, E., Hicklin, R.W., Lee, H.Y., *et al.* Diverse compounds from pleuromutilin lead to a thioredoxin inhibitor and inducer of ferroptosis. *Nat. Chem.* **11**(6), 521-532 (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.

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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