

PRODUCT: Erastin**RELATED PRODUCTS:****ALTERNATE NAME:** 2-[1-[4-[2-(4-Chlorophenoxy)acetyl]-1-piperazinyl]ethyl]-3-(2-ethoxyphenyl)-4(3H)-Quinazolinone

Ferrostatin-1 (Cat. No. 2230-5, 25)

CATALOG #: 2231-1, 5, 50**AMOUNT:** 1 mg, 5 mg, 50 mg**STRUCTURE:****MOLECULAR FORMULA:** C₃₀H₃₁N₄O₄**MOLECULAR WEIGHT:** 547.04**CAS NUMBER:** 571203-78-6**APPEARANCE:** White solid**SOLUBILITY:** DMSO (>50 mg/ml)**PURITY:** ≥98% by HPLC**STORAGE:** At -20° C. Protect from light and moisture**DESCRIPTION:** Erastin is a selective antitumor agent that displays greater lethality in human tumour cells harbouring mutations in the oncogenes *HRAS*, *KRAS* or *BRAF*. It binds to mitochondrial voltage-dependent anion channels (VDAC) proteins, more specifically on VDAC2 and alters its gating. Erastin rapidly induces an oxidative, non-apoptotic cell death in several human tumors harboring activating mutations in the RAS-RAF-MEK signaling.**REFERENCE:** Yagoda, N., *et al.* (2007). *Nature* **447**, 864-868.**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.**USAGE:** ***FOR RESEARCH CH USE ONLY! Not to be used in humans***