

Erastin 爱拉斯汀 (铁死亡激活剂)

产品编号	产品名称	包装规格
NBS5879-1mg	Erastin 爱拉斯汀 (铁死亡激活剂)	1mg
NBS5879-5mg	Erastin 爱拉斯汀 (铁死亡激活剂)	5mg
NBS5879-10mg	Erastin 爱拉斯汀 (铁死亡激活剂)	10mg
NBS5879-50mg	Erastin 爱拉斯汀 (铁死亡激活剂)	50mg

产品简介:

铁死亡 (Ferroptosis) 是一种铁依赖形式的非凋亡性细胞死亡。爱拉斯汀 (Erastin) 是一种铁死亡激活剂 (诱导剂)。体外诱导铁死亡性细胞坏死, 这一效应可被铁死亡抑制剂 (比如: Ferrostatin-1、Trolox、环匹罗司乙醇胺、放线菌酮和 β -巯基乙醇) 所阻断。HT-1080 纤维肉瘤和 Calu-1 肺肿瘤细胞中, 爱拉斯汀 (5 μ M) 通过谷氨酸-胱氨酸反向转运体 (System Xc-) 抑制胱氨酸摄取; 以及在酶结合的荧光分析实验中抑制谷氨酸释放。在表达 Ras 和 SV40 小 T 肿瘤蛋白的细胞中选择性诱导细胞死亡 (IC50s = 1.25-5 μ g/ml)。

产品特性:

- 1) 化学名: 2-[1-[4-[2-(4-chlorophenoxy)acetyl]-1-piperazinyl]ethyl]-3-(2-ethoxyphenyl)-4(3H)-quinazolinone
- 2) CAS NO: 571203-78-6
- 3) 分子式: C₃₀H₃₁ClN₄O₄
- 4) 分子量: 547.04
- 5) 外观: 固体
- 6) 纯度: \geq 98%
- 7) 溶解性: 溶于 DMSO (\geq 5mg/ml, 需要温育助溶)、不溶于乙醇、不溶于水

保存条件:

-20°C 干燥保存, 至少 2 年有效。

储存液制备:

浓度	溶剂体积	质量		
		1mg	5mg	10mg
1mM		1.8280 mL	9.1401 mL	18.2802 mL
5mM		0.3656 mL	1.8280 mL	3.6560 mL
10mM		0.1828 mL	0.9140 mL	1.8280 mL

【温馨提示】: 请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液; 本品在溶液状态不稳定, 建议现配现用。

产品使用: 【源自文献, 仅作参考】

文献 1:**体内研究 (动物模型):**

动物模型 (Animal Model): Endometriosis mouse model

实验方法 (Assay): Seven-to-8-week-old C57BL/6 female mice were obtained and 17- β -estradiol-3-benzoate (30 μ g/kg) was administered to each mouse every day for 3 days. We removed uterine horns from the donor mice and added them to saline. Endometrium was cut into 1mm² fragments. The endometrial fragments from each uterine horn were suspended in 0.3ml saline and injected into the peritoneal cavities of recipient mice with an 18-gauge needle. At 8 days (5 days after the operation), endometrial-like lesions were established, and they were randomly divided into two groups (each group contained 12 mice). In the experimental group, each mouse received erastin (20mg/kg/day) by intraperitoneal injection over a 7-day period. In the control group, DMSO was used instead of erastin. At 15 days, the mice were sacrificed and endometriotic lesions were collected.

文献 2:**体内研究 (动物模型):**

动物模型 (Animal Model): HT-29 tumor bearing SCID mice

实验方法 (Assay): Briefly, 2×10^6 viable HT-29 cells in 100 μ L of growth medium (per mouse) were subcutaneously inoculated, and mice bearing ~ 100 mm³ tumors were randomly divided into three groups with 10 mice per group. Mice were treated daily with 10 or 30 mg/kg body weight of erastin (intraperitoneal injection, for 4 weeks) or vehicle control (Saline).

注意事项:

1. 针对溶解性比较差的化合物, 可通过 37°C 孵育以及超声的方式来促进其溶解。
2. 本品并非商业化的临床药物, 仅用作科研用途, 不得用作临床诊断或治疗, 不得用于食品或药品, 绝对禁止用在人身上。
3. 为了您的安全和健康, 请穿实验服并戴一次性手套操作。

本产品仅用于生命科学研究, 不得用于医学诊断及其它用途!

相关产品:

产品编号	产品名称	包装规格
NBS5878-5mg	Ferrostatin-1 铁死亡抑制剂	5mg
NBS5879-1mg	Erastin 爱拉斯汀 (铁死亡激活剂)	1mg
NBS5880-10mg	(1S,3R)-RSL3 (GPx4 inhibitor) 谷胱甘肽过氧化物酶 4 抑制剂	10mg
NBS5881-1mg	BCP-T.A. (Ferroptosis inducer) 铁死亡诱导剂	1mg
NBS5882-2mg	Liproxstatin-1 铁死亡抑制剂	2mg
NBS5883-1g	Deferiprone (DFP) 去铁酮 (铁螯合剂)	1g
NBS5884-25mg	Deferoxamine Mesylate 甲磺酸去铁胺 (铁螯合剂)	25mg
NBS5885-1mg	FINO2 (Ferroptosis inducer) 铁死亡诱导剂	1mg
NBS5886-50ug	FeRhoNox-1 (Fe²⁺ indicator) 亚铁离子荧光探针	50ug
NBS5887-24ug	FerroOrange (Fe²⁺ indicator) 亚铁离子荧光探针	24ug
NBS5888-50nmol	FerroFarRed (Fe²⁺ indicator) 亚铁离子荧光探针	50nmol