

产品说明书

26 版

基本信息

产品编号:	E11994
产品名称:	Erastin2

产品简介:

一种 Erastin 类似物, 是一种铁死亡 (ferroptosis) 诱导剂和 xc(-) 胱氨酸/谷氨酸转运系统的有效选择性抑制剂。	
靶点:	Ferroptosis
体外研究:	
在 U-2 OSN 和 HT-1080N 细胞中, Erastin2 (2 μ M, 48 h) 诱导的铁死亡与急性氨基酸剥夺诱导的增殖停滞相关, 可以独立于 mTOR 抑制和 GCN2/ATF4 通路激活。	
无论是否预处理 Nutlin-3, Erastin2 (1 μ M, 48 h) 都能诱导 HT-1080 TP53 KO 纤维肉瘤细胞死亡。	
p53 在 HT-1080 TP53 KO 纤维肉瘤细胞中通过抑制 xc(-) 系统从而抑制 Erastin2 (1 μ M, 48 h) 诱导的铁死亡。	

使用方法 (供参考):

一: 体外实验			
DMF: 10 mg/ml; DMF:PBS (pH 7.2) (1:1): 0.25 mg/ml; DMSO: 1 mg/ml			
浓度 \ 质量 溶液体积	1mg	5mg	10mg
1 mM	1.6048 mL	8.0239 mL	16.0478 mL
5 mM	0.3210 mL	1.6048 mL	3.2096 mL
10 mM	0.1605 mL	0.8024 mL	1.6048 mL
储备液的保存方式: -80° C, 2 years; -20° C, 1 year (protect from light)。			
<1mg/ml 表示微溶或不溶。			
普西唐提供的所有化合物浓度为内部测试所得, 实际溶液度可能与公布值有所偏差, 属于正常的批间细微差异现象。			
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; 一旦配成溶液, 请分装保存, 避免反复冻融造成的产品失效。			
三、细胞实验			
Cell Viability Assay			
Cell Line:	HT-1080 N fibrosarcoma cells		
Concentration:	1 or 2 μ M		
Incubation Time:	48 h		
Result:	Consistently initiated cell death 8 h earlier than Camptothecin, such that Camptothecin may not have time to act before the induction of ferroptosis has already committed cells to death via this pathway in HT-1080 N fibrosarcoma cells. The six most potent compounds (Fer-1, SKI II, phenothiazine, JNJ-26854165, AZD3463, and bazedoxifene) all suppressed Erastin2 and ML162-induced ferroptosis with sub-150		



	nM potency in HT-1080N fibrosarcoma cells.
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Cell Proliferation Assay	
Cell Line:	U-2 OSN and HT-1080N cells
Concentration:	2 μ M
Incubation Time:	48 h
Result:	Deprivation of glutamine, lysine, valine, methionine, and arginine, all suppressed ferroptosis in both U-2 OSN and HT-1080N cells in response to erastin2.

Cell Proliferation Assay	
Cell Line:	Human HT-1080 TP53 KO fibrosarcoma cells
Concentration:	1 μ M, pretreated for 48 h with or without Nutlin-3
Incubation Time:	48 h
Result:	Control cells pretreated with nutlin-3 were less sensitive to erastin2-induced cell death, by contrast, TP53 KO cells were equally sensitive to erastin2 regardless of nutlin-3 pretreatment.

注意事项:

1、为了您的安全和健康，请穿实验服并戴一次性手套操作。
2、以上信息仅做参考交流之用。

储存: 2-8° C, 密封干燥。