

Erastin

货号: E7148

储存条件: 粉末-20°C 可保存 3 年; 液体-80°C 可保存 12 月。

产品描述

Erastin is a both Ferroptosis activator and mitochondrial VDAC modulator. Erastin can trigger ferroptosis dependent upon intracellular iron. Treatment with 10 μ M Erastin for 6h can induce accumulation of cytosolic ROS which can be inhibited by 100 μ M deferoxamine in HT-1080 cells. Iron-dependent oxidative death and inhibition of System x-c can also be observed. Erastin can induce rapid, oxidative, non-apoptotic death in HRASV12-expressing cell lines at concentration below 1 μ M. This lethal effect of erastin is dependent on the RAS-RAF-MEK pathway for inhibition of MAPK, ERK1/2 or MEK1/2, or KRAS and BRAF knockdown could restore the lethality of erastin. This selectivity for cells with activated RAS-RAF-MEK signaling may due to the interaction of Erastin with VDAC proteins and the subsequent induction of mitochondrial dysfunction, release of oxidative species and, ultimately, non-apoptotic, oxidative cell death.

产品信息

CAS 号	571203-78-6	
分子式	C ₃₀ H ₃₁ ClN ₄ O ₄	
分子量	547.04	
溶解度	DMSO	18.0 mg/mL (32.9 mM)
	Water	insoluble

