

Data Sheet (Cat.No.T11940)

Malic enzyme inhibitor ME1

Chemical Properties

CAS No.:	522649-59-8
Formula:	C ₂₀ H ₂₁ N ₃ O ₃
Molecular Weight:	351.4
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Malic enzyme inhibitor ME1 is a potent inhibitor of Malic enzyme (ME1, IC ₅₀ : 0.15 μM).
Targets(IC ₅₀)	Malic enzyme: 0.15 μM
In vitro	Malic enzyme inhibitor ME1 shows a significant reduction in cell viability/metabolic activity in MTS cell[2]. Malic enzyme inhibitor ME1 dose-dependently reduces the number of colonies formed by both HCT116 and HT29 cells[2]. Malic enzyme inhibitor ME1 (50 μM; 72 hours) shows a significant reduction in total cell numbers[2].

Solubility Information

Solubility	DMSO: 125 mg/mL (355.72 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.846 mL	14.229 mL	28.458 mL
5 mM	0.569 mL	2.846 mL	5.692 mL
10 mM	0.285 mL	1.423 mL	2.846 mL
50 mM	0.057 mL	0.285 mL	0.569 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

- Zhang YJ, et al. In silico design and synthesis of piperazine-1-pyrrolidine-2,5-dione scaffold-based novel malic enzyme inhibitors. *Bioorg Med Chem Lett*. 2006 Feb;16(3):525-8. Epub 2005 Nov 8.
- Fernandes L, et al. Malic Enzyme 1 (ME1) is pro-oncogenic in ApcMin/+ mice. *Sci Rep*. 2018 Sep 24;8(1):14268.

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