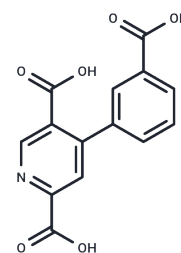


4-CPPC

Chemical Properties

CAS No. :	29553-70-6
Formula:	C ₁₄ H ₉ NO ₆
Molecular Weight:	287.22
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	4-CPPC is an inhibitor of macrophage migration inhibitory factor-2 (MIF-2; IC ₅₀ = 27 μM). It is selective for MIF-2 over MIF-1 (IC ₅₀ = 450 μM). It inhibits MIF-2, but not MIF-1, binding to CD74 in vitro when used at a concentration of 10 μM. 4-CPPC (5, 10, and 25 μM) inhibits MIF-2-induced ERK1/2 phosphorylation in primary human skin fibroblasts.
Targets(IC ₅₀)	Others, MIF, CD74

Solubility Information

Solubility	DMSO: 2.88 mg/mL (10.03 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4817 mL	17.4083 mL	34.8165 mL
5 mM	0.6963 mL	3.4817 mL	6.9633 mL
10 mM	0.3482 mL	1.7408 mL	3.4817 mL
50 mM	0.0696 mL	0.3482 mL	0.6963 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Tilstam, P.V., Pantouris, G., Corman, M., et al. A selective small-molecule inhibitor of macrophage migration inhibitory factor-2 (MIF-2), a MIF cytokine superfamily member, inhibits MIF-2 biological activity. *Biol. Chem.* 294 (49)18522-18531 (2019)

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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