

Heraclenol

Chemical Properties

CAS No. : 31575-93-6

Formula: C₁₆H₁₆O₆

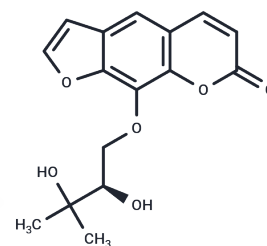
Molecular Weight: 304.29

Storage:

Store at low temperature, Store under nitrogen, Keep away from moisture

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Heraclenol is derived from the fruits of <i>Angelica lucida</i> with antibacterial activities. Heraclenol is a germination inhibitor in the parsley and lettuce seeds.
Targets(IC ₅₀)	Antibacterial
In vitro	Heraclenol inhibits the proliferation of melanoma cells and cell cycle at G ₂ /M at concentrations of 0.1-1.0 μM. UVA plus Heraclenol increases Chk1 phosphorylation and reduces cdc2 (Thr 161) phosphorylation in melanoma cells[3].
In vivo	Heraclenol (0.3, 0.5 or 1.0 mg/kg; i.p.) reduces tumor growth and final tumor weight in B16F10-bearing mice[3].

Solubility Information

Solubility	DMSO: 1.5 mg/mL (4.93 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	3.2863 mL	16.4317 mL	32.8634 mL
5 mM	0.6573 mL	3.2863 mL	6.5727 mL
10 mM	0.3286 mL	1.6432 mL	3.2863 mL
50 mM	0.0657 mL	0.3286 mL	0.6573 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

Tadahiro Kato, et al. The coumarin heraclenol as a growth inhibitor in parsley seeds. *Phytochemistry*, 1978, 17(1): 158-9.

Widelski J, et al. Coumarins from *Angelica lucida* L.--antibacterial activities. *Molecules*. 2009 Jul 27; 14(8):2729-34.

Kimura Y, et al. In vitro and in vivo antiproliferative effect of a combination of ultraviolet-A and alkoxy furocoumarins isolated from Umbelliferae medicinal plants, in melanoma cells. *Photochem Photobiol*. 2013 Sep-Oct; 89(5):1216-25.

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