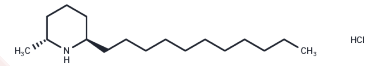


## Solenopsin HCl (137038-57-4 Free base)

## Chemical Properties

CAS No. :	137119-46-1
Formula:	C17H36ClN
Molecular Weight:	289.93
Storage:	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	Solenopsin HCl is an alkaloid extracted from fire ants, inhibiting phosphoinositide 3-kinase signaling and angiogenesis in a dose-dependent manner, affecting cardiovascular function, and used in cardiovascular disease research.
Targets(IC50)	PI3K
In vitro	Solenopsin HCl exhibits anti-angiogenic activity and down-regulates phosphoinositol-3 kinase (PI3K) in P53-deficient renal cell cancer line 786-O. [1]
In vivo	Solenopsin HCl improves inflammation and acanthosis in psoriatic KC-Tie2 mouse models. [2]

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4491 mL	17.2455 mL	34.4911 mL
5 mM	0.6898 mL	3.4491 mL	6.8982 mL
10 mM	0.3449 mL	1.7246 mL	3.4491 mL
50 mM	0.069 mL	0.3449 mL	0.6898 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

- Karlsson I, et al. Solenopsin A and analogs exhibit ceramide-like biological activity. *Vasc Cell*. 2015 May 8;7:5.
- Arbiser JL, et al. Evidence for biochemical barrier restoration: Topical solenopsin analogs improve inflammation and acanthosis in the KC-Tie2 mouse model of psoriasis. *Sci Rep*. 2017 Sep 11;7(1):11198.
- Arbiser JL, et al. Solenopsin, the alkaloidal component of the fire ant (*Solenopsis invicta*), is a naturally occurring inhibitor of phosphatidylinositol-3-kinase signaling and angiogenesis. *Blood*. 2007 Jan 15;109(2):560-5.

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