

## Solasonine

## Chemical Properties

CAS No. : 19121-58-5

Formula: C<sub>45</sub>H<sub>73</sub>N<sub>10</sub>O<sub>16</sub>

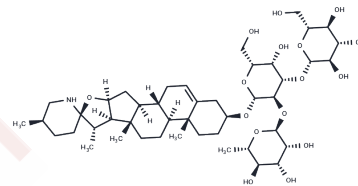
Molecular Weight: 884.06

Keep away from direct sunlight, Keep away from moisture

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	Solasonine exerts leishmanicidal activity against promastigote forms of <i>L. amazonensis</i> .
Targets(IC50)	Others, Ferroptosis, Reactive Oxygen Species, Glutathione Peroxidase, ROS

## Solubility Information

Solubility	DMSO: 125 mg/mL (141.39 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (11.31 mM), Suspension. 10% DMSO+90% Saline: $< 10$ mg/mL (11.31 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	1.1311 mL	5.6557 mL	11.3114 mL
5 mM	0.2262 mL	1.1311 mL	2.2623 mL
10 mM	0.1131 mL	0.5656 mL	1.1311 mL
50 mM	0.0226 mL	0.1131 mL	0.2262 mL

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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

Fewell AM, et al. Interactions between the glycoalkaloids solasonine and solamargine in relation to inhibition of fungal growth. *Phytochemistry*. 1994 Nov;37(4):12007-11.

Abreu Miranda M, et al. In vitro leishmanicidal and cytotoxic activities of the glycoalkaloids from *Solanum lycocarpum* (Solanaceae) fruits. *Chem Biodivers*. 2013 Apr;10(4):642-8.

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