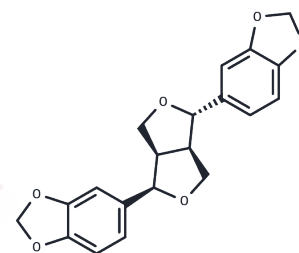


## L-asarinin

## Chemical Properties

CAS No. :	133-05-1
Formula:	C <sub>20</sub> H <sub>18</sub> O <sub>6</sub>
Molecular Weight:	354.35
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	L-asarinin ((-)-Episesamin) reduces peripheral blood concentration of IL-12 and inhibits the expression of CXCR3 and TLR4, which means Asarinin may have a role on the TLR4 pathway and produce prolongation of allograft heart survival.
Targets(IC50)	Others
Kinase Assay	Samples containing either URB602 (300 μM), MGL (1.4 pM), or both URB602 and MGL are incubated at 37°C for 30 min in assay buffer. At various time points, the reaction is stopped with an equal volume of ice-cold methanol and directly analyzed in positive ionization mode by LC/MS. A SB-CN column (150×2.1 mm i.d., 5 μm) eluted is used with a linear gradient of methanol in water containing 0.25% acetic acid and 5 mM ammonium acetate (from 60% to 100% of methanol in 8 min) at a flow rate of 0.5 mL/min with column temperature at 50°C. Capillary voltage is set at 4 kV and fragmentor voltage is 100V. Nebulizer pressure is set at 60 psi. N <sub>2</sub> is used as drying gas at a flow rate of 13 liters/min and a temperature of 350°C. ESI is in the positive mode and a full scan spectrum is acquired from m/z 100 to 600. Extracted ion chromatograms are used to quantify URB602 ([M+H] <sup>+</sup> , m/z 296)[2].

## Solubility Information

Solubility	DMSO: 60 mg/mL (169.32 mM), Sonication is recommended. Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.8221 mL	14.1103 mL	28.2207 mL
5 mM	0.5644 mL	2.8221 mL	5.6441 mL
10 mM	0.2822 mL	1.411 mL	2.8221 mL
50 mM	0.0564 mL	0.2822 mL	0.5644 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

Gu J., et al. The effect of Asarinin on Toll-like pathway in rats after cardiac allograft implantation. *Transplant Proc.* 2015 Mar;47(2):545-8.

Bogurcu N., et al. ALCAPs induce mitochondrial apoptosis and activate DNA damage response by generating ROS and inhibiting topoisomerase I enzyme activity in K562 leukemia cell line. *Biochem Biophys Res Commun.* 2011 Jun 17;409(4):738-44.

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