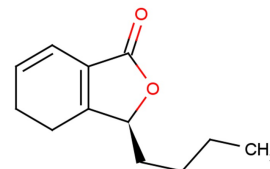


## Senkyunolide

## Chemical Properties

CAS No.:	63038-10-8
Formula:	C <sub>12</sub> H <sub>16</sub> O <sub>2</sub>
Molecular Weight:	192.25
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	Senkyunolide A is a natural product isolated from Ligusticum chuanxiong Hort, with anti-tumor activity.
Targets(IC <sub>50</sub> )	Others: None
In vitro	To determine the equilibrium solubility of senkyunolide and its partition coefficients for the n-octanol-water/buffer solution systems,so as to provide a basis for new formulations designing. METHODS AND RESULTS:A high performance liquid chromatography method was established to detect the concentration of Senkyunolide .The Megres ODS(5 μm,4.6 mm×100 mm)column was adopted,the mobile phase was acetonitrile-water(1:3, v/v)at a flow rate of 1.0 mL/min,and the detection wavelength was 278 nm.The concentration of Senkyunolide in different pH solutions and the partition coefficients for the n-octanol-water and n-octanol-buffer solution systems were detected. The equilibrium solubility reached a maximum of 34.31 mg/mL in water at 37°C.Senkyunolide was instable in solvent systems pH≥9.0.Partition coefficient of Senkyunolide was 13.43(lg P <sub>app</sub> =1.13) in the n-octanol-water system;there was no significant effect of pH to partition coefficient of Senkyunolide . CONCLUSIONS:The study showed that Senkyunolide is soluble,the partition coefficient of Senkyunolide is moderate,and the relative molecular mass of Senkyunolide is small.Therefore,we can explain why Senkyunolide can quickly reach into blood and brain.Senkyunolide can be predicted with a good application value.

## Solubility Information

Solubility	DMSO: 117 mg/mL (608.58mM) ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.202 mL	26.008 mL	52.016 mL
5 mM	1.04 mL	5.202 mL	10.403 mL
10 mM	0.52 mL	2.601 mL	5.202 mL
50 mM	0.104 mL	0.52 mL	1.04 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. HPLC determination of equilibrium solubility and apparent oil/water partition coefficient of senkyunolide. Chinese Journal of Pharmaceutical Analysis, 2012, 32(9):1644-1647.

Inhibitors · Natural Compounds · Compound Libraries

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