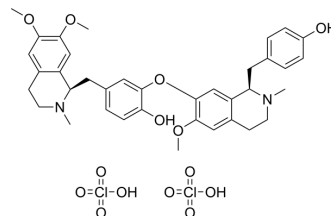


## Liensinine Diperchlorate

<b>Cat. No.:</b>	HY-N0485
<b>CAS No.:</b>	5088-90-4
<b>Molecular Formula:</b>	C <sub>37</sub> H <sub>44</sub> Cl <sub>2</sub> N <sub>2</sub> O <sub>14</sub>
<b>Molecular Weight:</b>	811.66
<b>Target:</b>	Autophagy; Mitophagy
<b>Pathway:</b>	Autophagy
<b>Storage:</b>	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 62.5 mg/mL (77.00 mM; Need ultrasonic)					
	<b>Preparing Stock Solutions</b>	<b>Solvent</b>	<b>Mass</b>	<b>1 mg</b>	<b>5 mg</b>	<b>10 mg</b>
		<b>Concentration</b>				
		<b>1 mM</b>		1.2320 mL	6.1602 mL	12.3204 mL
		<b>5 mM</b>		0.2464 mL	1.2320 mL	2.4641 mL
<b>10 mM</b>		0.1232 mL	0.6160 mL	1.2320 mL		
Please refer to the solubility information to select the appropriate solvent.						
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (2.56 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (2.56 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (2.56 mM); Clear solution					

### BIOLOGICAL ACTIVITY

<b>Description</b>	Liensinine Diperchlorate is a major isoquinoline alkaloid, extracted from the seed embryo of <i>Nelumbo nucifera</i> Gaertn. Liensinine Diperchlorate inhibits late-stage autophagy/mitophagy through blocking autophagosome-lysosome fusion. Liensinine Diperchlorate has a wide range of biological activities, including anti-arrhythmias, anti-hypertension, anti-pulmonary fibrosis, relaxation on vascular smooth muscle, etc <sup>[1]</sup> .
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### CUSTOMER VALIDATION

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- Oxid Med Cell Longev. 2022 Jan 25;2022:8245614.
  - Int J Biol Sci. 2022; 18(13):5168-5184.
  - Int J Biol Sci. 2022 Aug 8;18(13):5168-5184.
  - Adipocyte. 2022 Dec;11(1):202-212.
  - J Oncol. 01 Jul 2022.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

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[1]. Zhou J, et al. A novel autophagy/mitophagy inhibitor liensinine sensitizes breast cancer cells to chemotherapy through DNM1L-mediated mitochondrial fission. *Autophagy*. 2015;11(8):1259-79.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA