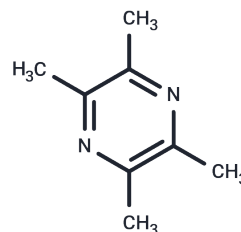


## Ligustrazine

## Chemical Properties

CAS No. :	1124-11-4
Formula:	C <sub>8</sub> H <sub>12</sub> N <sub>2</sub>
Molecular Weight:	136.19
Storage:	Pure form: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Ligustrazine (Tetramethylpyrazine), a natural compound isolated from Chinese herbal medicine Ligusticum wallichii (Chuan Xiong) shows anti-inflammation, antioxidant, antiplatelet, and antiapoptosis activities.
Targets(IC50)	Apoptosis, Antioxidant

## Solubility Information

Solubility	DMSO: 51.05 mg/mL (374.84 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: 2 mg/mL (14.69 mM), Sonication is recommended. <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

	1mg	5mg	10mg
1 mM	7.3427 mL	36.7134 mL	73.4268 mL
5 mM	1.4685 mL	7.3427 mL	14.6854 mL
10 mM	0.7343 mL	3.6713 mL	7.3427 mL
50 mM	0.1469 mL	0.7343 mL	1.4685 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

Guan D, et al. J Neurochem. 2015 Aug;134(3):551-65.

Zhang T, Liu L, Huang X, et al. Application of microfluidic chip technology to study the inhibitory effect of tetramethylpyrazine on platelet aggregation, activation, and phosphatidylserine exposure mediated by pathological high shear rate. Blood Coagulation & Fibrinolysis. 2023, 34(1): 47-60.

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