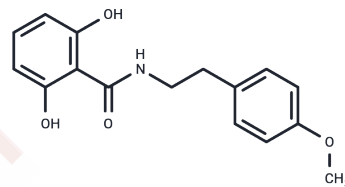


Riparin III

Chemical Properties

CAS No. :	112356-54-4
Formula:	C ₁₆ H ₁₇ N ₁ O ₄
Molecular Weight:	287.31
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	Riparin III (Riparin) is a smooth muscle relaxant that inhibits CaCl ₂ -induced contractions. Riparin III has potential antioxidant, anti-inflammatory, and antidepressant properties, and may reverse the most abnormal behavioral and neurochemical changes induced by corticosterone.
Targets(IC50)	Others,Antioxidant,Calcium Channel

Solubility Information

Solubility	DMSO: 80 mg/mL (278.44 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: 3.3 mg/mL (11.49 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	3.4806 mL	17.4028 mL	34.8056 mL
5 mM	0.6961 mL	3.4806 mL	6.9611 mL
10 mM	0.3481 mL	1.7403 mL	3.4806 mL
50 mM	0.0696 mL	0.3481 mL	0.6961 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

- Thomas G, et al. Studies on the mechanism of spasmolytic activity of (O-methyl)-N-(2,6-dihydroxybenzoyl) tyramine, a constituent of *Aniba riparia* (Nees) Mez. (Lauraceae), in rat uterus, rabbit aorta and guinea-pig alveolar leucocytes. *J Pharm Pharmacol.* 1994 Feb;46(2):103-7.
- Scheuerell RP, LeRoy CJ. Plant sex influences on riparian communities and ecosystems. *Ecol Evol.* 2023 Jul 12;13(7):e10308.
- Grudzinski B, Fritz K, Dodds W. Does Riparian Fencing Protect Stream Water Quality in Cattle-Grazed Lands? *Environ Manage.* 2020 Jul;66(1):121-135.
- Esslemont G, Maher W, Ford P, Lawrence I. Riparian plant material inputs to the Murray River, Australia: composition, reactivity, and role of nutrients. *J Environ Qual.* 2007 May 25;36(4):963-74.

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