

Neoline

Chemical Properties

CAS No. : 466-26-2

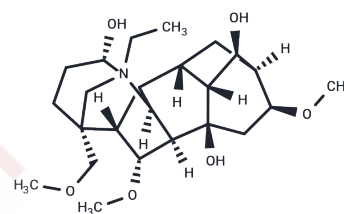
Formula: C₂₄H₃₉NO₆

Molecular Weight: 437.57

Keep away from direct sunlight

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	Neoline is an active ingredient of <i>A. venetum</i> root (PA) that ameliorates oxaliplatin-induced peripheral neuropathy in mice. Neoline inhibits Nav1.7 voltage-gated sodium channel currents (VGSC). It can be used as a labeling compound to determine the quality of PA products used in the study of neuropathic pain.
Targets(IC50)	Sodium Channel

Solubility Information

Solubility	Chloroform, Dichloromethane, Ethyl Acetate, Acetone, etc.: Soluble, DMSO: 200 mg/mL (457.07 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: 5 mg/mL (11.43 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	2.2853 mL	11.4267 mL	22.8535 mL
5 mM	0.4571 mL	2.2853 mL	4.5707 mL
10 mM	0.2285 mL	1.1427 mL	2.2853 mL
50 mM	0.0457 mL	0.2285 mL	0.4571 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

Suzuki, T., Miyamoto, K., Yokoyama, N., Sugi, M., Kagioka, A., & Kitao, Y. et al. (2016). Processed aconite root and its active ingredient neoline may alleviate oxaliplatin-induced peripheral neuropathic pain. *Journal Of Ethnopharmacology*, 186, 44-52. doi: 10.1016/j.jep.2016.03.056

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