

## Nodosin

## Chemical Properties

CAS No. : 10391-09-0

Formula: C<sub>20</sub>H<sub>26</sub>O<sub>6</sub>

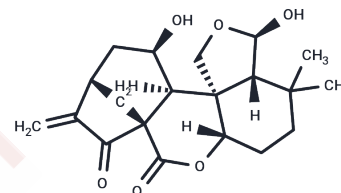
Molecular Weight: 362.42

Storage:

Store at low temperature, Keep away from direct sunlight

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	Nodosin has an anti-inflammatory function via inhibition of IL-2. Nodosin perfusion provides a potential protective effect by inducing HO-1 expression to attenuate ischemia/reperfusion injury in liver transplantation.
Targets(IC50)	Apoptosis, Ferroptosis, NF-κB, Nrf2, Autophagy, c-Myc, GSK-3, IL Receptor, Interleukin, ROS, Survivin, Wnt/beta-catenin
In vitro	In order to explore the anti-inflammatory effects of Nodosin from Isodon serra, a traditional Chinese herb medicine, mouse T lymphocytes were incubated with Nodosin. METHODS AND RESULTS: In the current study, Nodosin suppressed the overproduction of the T lymphocytes; moreover, the cell mitosis cycle was modulated by interfering with DNA replication in G1 stages via inhibition of IL-2 cytokine secretion at the mRNA level by Nodosin. Interestingly, Xylene-induced mouse tumescence model results suggested Nodosin depressed the murine ear-swelling extent and the level of IL-2 in the blood serum.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7592 mL	13.7961 mL	27.5923 mL
5 mM	0.5518 mL	2.7592 mL	5.5185 mL
10 mM	0.2759 mL	1.3796 mL	2.7592 mL
50 mM	0.0552 mL	0.2759 mL	0.5518 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

Jiyu Li,et al. Anti-inflammatory function of Nodosin via inhibition of IL-2. Am J Chin Med. 2010;38(1):127-42.

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