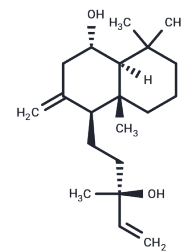


## Larixol

## Chemical Properties

CAS No. :	1438-66-0
Formula:	C <sub>20</sub> H <sub>34</sub> O <sub>2</sub>
Molecular Weight:	306.48
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	Larixol acts as both an fMLP inhibitor and a modulator of various signaling pathways by inhibiting Src kinase, ERK1/2, p38, and AKT phosphorylation critical for immune responses. It disrupts the interaction between the $\beta\gamma$ subunit of the Gi protein and downstream effectors linked to the fMLP receptor, thus abrogating fMLP-induced respiratory bursts. Additionally, larixol effectively reduces fMLP (0.1 $\mu$ M)-triggered superoxide anion generation (IC <sub>50</sub> : 1.98 $\mu$ M), cathepsin G secretion (IC <sub>50</sub> : 2.76 $\mu$ M), and cellular chemotaxis, mitigating neutrophil hyperactivation and subsequent inflammation or tissue injury. Derivatives of larixol also demonstrate inhibitory activity on TRPC6 functional mutants associated with FSGS [1] [2].
Targets(IC <sub>50</sub> )	ERK,Akt,Src

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2629 mL	16.3143 mL	32.6286 mL
5 mM	0.6526 mL	3.2629 mL	6.5257 mL
10 mM	0.3263 mL	1.6314 mL	3.2629 mL
50 mM	0.0653 mL	0.3263 mL	0.6526 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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