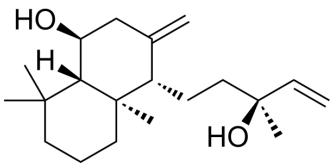
Larixol

Cat. No.:	HY-W744699
CAS No.:	1438-66-0
Molecular Formula:	$C_{20}H_{34}O_2$
Molecular Weight:	306.48
Target:	Src; ERK; Akt
Pathway:	Protein Tyrosine Kinase/RTK; MAPK/ERK Pathway; Stem Cell/Wnt; PI3K/Akt/mTOR
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Larixol is an fMLP inhibitor and also inhibits Src kinase, ERK1/2, p38 and AKT phosphorylation signals in immune regulation. Larixol can interfere with the interaction between the βγ subunit of the fMLP receptor Gi protein and its downstream molecules, thereby inhibiting fMLP-induced respiratory burst. Larixol inhibits fMLP (0.1 μM)-induced superoxide anion production (IC_{50}: 1.98 μM), cathepsin G release (IC_{50}: 2.76 μM), and chemotaxis. Larixol improves neutrophil hyperactivation and reduces inflammation or tissue damage. A series of Larixol derivatives were found to have inhibitory effects on FSGS-related TRPC6 functional mutants[1][2].
IC_{50} & Target	(+)-Larixol[1]

REFERENCES

[1]. Liao HR, et al. Larixol inhibits fMLP-induced superoxide anion production and chemotaxis by targeting the βγ subunit of Gi-protein of fMLP receptor in human neutrophils. Biochem Pharmacol. 2022 Jul;201:115091.

[2]. Urban N, et al. Pharmacological inhibition of focal segmental glomerulosclerosis-related, gain of function mutants of TRPC6 channels by semi-synthetic derivatives of larixol. Br J Pharmacol. 2017 Nov;174(22):4099-4122.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA