

Product Data Sheet

Product Name: Larixyl Acetate

Cat. No.: GC49608

Chemical Properties

Cas. No. 4608-49-5

SMILES C[C@]12[C@@](C(C)(CCC2)C)([H])[C@H](CC([C@@H]1CC[C@](C)(O)C=C)=C)OC(C)=O

Formula C₂₂H₃₆O₃ M.Wt 348.5

Solubility DMSO : 100 mg/mL (286.93 mM; Need ultrasonic) Storage Store at -20°C, protect from light

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

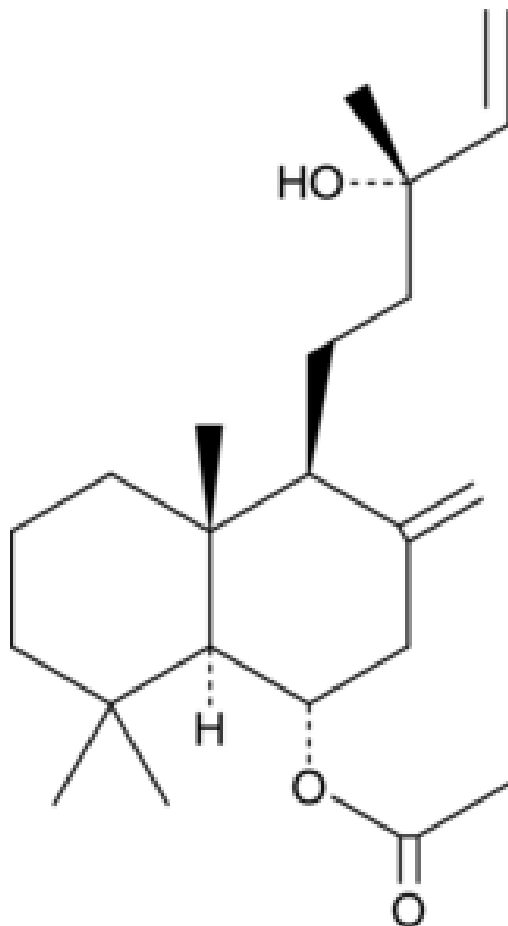
Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Structure



Background

Larixyl acetate is a diterpenoid that has been found in *Larix* and has transient receptor potential canonical 6 (TRPC6) inhibitory and analgesic activities.^{1,2} It inhibits the activity of TRPC6 ($IC_{50} = 0.58 \mu M$) and is selective for TRPC6 over TRPC3 ($IC_{50} = 6.83 \mu M$), as well as over nine additional TRP channels at $10 \mu M$.¹ Intrathecal administration of larixyl acetate reduces mechanical and cold

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allodynia in a rat model of neuropathic pain induced by spared nerve injury (SNI).

1. Urban, N., Wang, L., Kwiek, S., et al. Identification and validation of larixyl acetate as a potent TRPC6 inhibitor. *Mol. Pharmacol.* 89(1)197-213(2016)
2. Wang, J., Zhao, M., Jia, P., et al. The analgesic action of larixyl acetate, a potent TRPC6 inhibitor, in rat neuropathic pain model induced by spared nerve injury. *J. Neuroinflammation* 17(1)118(2020)

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