

Product Data Sheet

Product Name: Zingibroside R1

Cat. No.: GC37968

Chemical Properties

Cas. No. 80930-74-1

SMILES C[C@@]12C([C@@]3([H])[C@](C(O)=O)(CCC(C)(C)C3)CC2)=CC[C@]4([H])[C@@](C)(CC[C@H](O[C@@]5([H])[C@@H]([C@H]([C@H](O)[C@@H](C(O)=O)O5)O)O[C@]6([H])O[C@@H]([C@@H](O)[C@H](O)[C@H]6O)CO)C7(C)C)[C@@]7([H])CC[C@@]14C

Formula C₄₂H₆₆O₁₄ M.Wt 794.97

Solubility DMSO : 100 mg/mL (125.79 mM; Need ultrasonic) Storage 4°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.

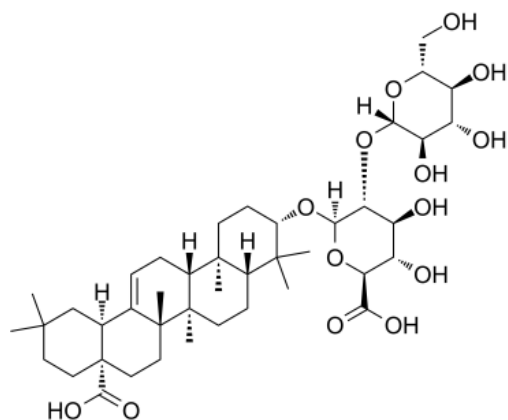
Caution: Product has not been fully validated for medical applications. For research use only.

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Product Data Sheet

Structure



Background

Zingibroside R1 is dammarane-type triterpenoid saponin, isolated from rhizomes, taproots, and lateral roots of *Panax japonicas* C. A. Meyer, shows excellent anti-tumor effects as well as anti-angiogenic activity[1]. Zingibroside R1 possesses some anti-HIV-1 activity. Zingibroside R1 has inhibitory effects on the 2-deoxy-D-glucose (2-DG) uptake by EAT cells ($IC_{50}=91.3 \mu M$)[2]. IC_{50} : $91.3 \mu M$ (2-DG uptake)[1]

[1]. Yoshizaki K, et al. Saponins composition of rhizomes, taproots, and lateral roots of *Satsuma-ninjin* (*Panax japonicus*). *Chem Pharm Bull* (Tokyo). 2013;61(3):344-50. Epub 2012 Dec 28 [2]. Hasegawa H, et al. Inhibitory effect of some triterpenoid saponins on glucose transport in tumor cells and its application to in vitro cytotoxic and antiviral activities. *Planta Med.* 1994 Jun;60 (3):240-3.

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