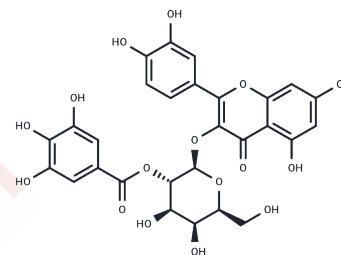


2"-O-Galloylhyperin

Chemical Properties

CAS No. : 53209-27-1
 Formula: C₂₈H₂₄O₁₆
 Molecular Weight: 616.48
 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	2''-O-Galloylhyperin (FT-0689359) found in Pyrola. It increases ruminal fiber fermentability by formed wall-bound lignin in primary maize cell walls.
Targets(IC50)	Others
In vivo	4-Octyl Itaconate (OI) is a cell-permeable itaconate derivative. 4-Octyl Itaconate is protective against lipopolysaccharide-induced lethality in vivo and decreases cytokine production[1] .

Solubility Information

Solubility	DMSO: 250 mg/mL (405.53 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 0.5 mg/mL (0.81 mM),Sonication is recommended. 10% DMSO+90% Saline: 10 mg/mL (16.22 mM),Solution. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6221 mL	8.1106 mL	16.2211 mL
5 mM	0.3244 mL	1.6221 mL	3.2442 mL
10 mM	0.1622 mL	0.8111 mL	1.6221 mL
50 mM	0.0324 mL	0.1622 mL	0.3244 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

Wang P, Gao YM, Sun X, Guo N, Li J, Wang W, Yao LP, Fu YJ. Hepatoprotective effect of 2'-O-galloylhyperin against oxidative stress-induced liver damage through induction of Nrf2/ARE-mediated antioxidant pathway. *Food Chem Toxicol.* 2017 Apr;102:129-142.

Li XH, Wang JX, Wang XY. [Determination of 2'-O-galloylhyperin in *Pyrola calliantha* H. Andres]. *Zhongguo Zhong Yao Za Zhi.* 1994 Feb;19(2):103-4, 127. Chinese.

Zhou D, Jin Y, Yao F, Duan Z, Wang Q, Liu J. Validated LC-MS/MS method for the simultaneous determination of hyperoside and 2''-O-galloylhyperin in rat plasma: application to a pharmacokinetic study in rats. *Biomed Chromatogr.* 2014 Aug;28(8):1057-63.

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