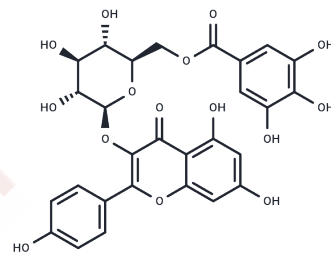


Kaempferol 3-O-(6''-galloyl)-beta-D-glucopyranoside

Chemical Properties

CAS No. :	56317-05-6
Formula:	C ₂₈ H ₂₄ O ₁₅
Molecular Weight:	600.48
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Kaempferol 3-O-(6''-galloyl)-beta-D-glucopyranoside is a glucopyranoside that inhibits HIV-2 RNase H with an IC ₅₀ of 5.19 μM.
Targets(IC ₅₀)	HIV Protease
In vitro	Kaempferol 3-O-(6''- galloyl)-β-D-glucopyranoside (compounds 3; KGG) (12、 25、 50 μM) inhibited the expression of NLRP3 protein in RAW 264.7 cells. Treatment with the isolated compounds 3 significantly inhibited IL-1β protein expression in RAW 264.7 cells in a concentration-dependent manner.[2] Kaempferol 3-O-(6''- galloyl)-β-D-glucopyranoside (compounds 1) showed most potent inhibition at the IC ₅₀ value of 0.46 mM. The enzyme steady-state kinetic study revealed that 1 exerted competitiv inhibition with respect to ATP.[3]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6653 mL	8.3267 mL	16.6533 mL
5 mM	0.3331 mL	1.6653 mL	3.3307 mL
10 mM	0.1665 mL	0.8327 mL	1.6653 mL
50 mM	0.0333 mL	0.1665 mL	0.3331 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

Lima R C L, et al. Brazilian insulin plant as a bifunctional food: Dual high-resolution PTP1B and α -glucosidase inhibition profiling combined with HPLC-HRMS-SPE-NMR for identification of antidiabetic compounds in *Myrcia rubella* Cambess. *Journal of Functional Foods*. 2018; 45:444-451.

Kim EB, et al. Antiacne and Anti-Inflammatory Effects of Phenolic Compounds from *Quercus acutissima* Carruth. Leaves. *Evid Based Complement Alternat Med*. 2022;2022:9078475.

Lee YE, et al. Flavonoids from *Woodfordia fruticosa* as potential SmltD inhibitors in the alternative biosynthetic pathway of peptidoglycan. *Bioorg Med Chem Lett*. 2021;36:127787.

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