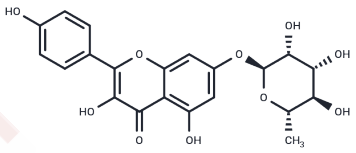
Data Sheet (Cat.No.TN1827)

TargetMol

Kaempferol-7-O-rhamnoside

Chemical Properties



CAS No. : 20196-89-8

Formula: C21H20O10

Molecular Weight: 432.38

Storage: Keep away from direct sunlight
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	Kaempferol-7-O-rhamnoside is a natural product discovered in Siraitia grosvenori, exhibiting μM-level inhibitory effects against HCT-116 and SMMC-7721.
Targets(IC50)	Others
In vitro	Kaempferol-7-O-rhamnoside (100-500 μM) exhibited no significant cytotoxicity on H9c2 cardiomyocytes and could antagonize H2O2-induced cell damage while improving cell viability [2]. Kaempferol-7-O-rhamnoside (100-500 μM) concentration-dependently upregulated the mRNA expression of AMPKα1 in H9c2 cardiomyocytes [2]. Kaempferol-7-O-rhamnoside (25-100 μM, 24 hours) inhibited the activities of AST and AKP in APAP-induced L02 cells [3]. Kaempferol-7-O-rhamnoside (100 μM, 24 hours) significantly reduced ROS generation in APAP-induced L02 cells [3]. Kaempferol-7-O-rhamnoside (25-100 μmol/L, 24 hours) significantly upregulated the mRNA expression of FXR and downregulated the mRNA expression of Cyp7a1 in APAP-induced L02 cells [3].

Solubility Information

Solubility	DMSO: 80 mg/mL (185.02 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3128 mL	11.5639 mL	23.1278 mL
5 mM	0.4626 mL	2.3128 mL	4.6256 mL
10 mM	0.2313 mL	1.1564 mL	2.3128 mL
50 mM	0.0463 mL	0.2313 mL	0.4626 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

Kim JH, et al. Kaempferol and Its Glycoside, Kaempferol 7-O-Rhamnoside, Inhibit PD-1/PD-L1 Interaction In Vitro. Int J Mol Sci. 2020 May 3;21(9):3239.
Li Z, et al. Decoding the anti-heart failure effects of Xinbao Pills: AMPKα1 activation and active compound screening. Phytomedicine. 2025 Sep;145:157016.
Liu K, et al. Identification of a novel farnesoid X receptor agonist, kaempferol-7-O-rhamnoside, a compound ameliorating drug-induced liver injury based on virtual screening and in vitro validation. Toxicol Appl Pharmacol. 2022 Nov 1;454:116251.