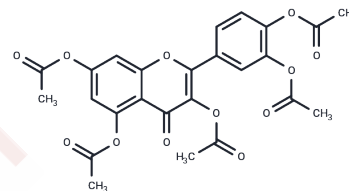


Quercetin pentaacetate

Chemical Properties

CAS No. :	1064-06-8
Formula:	C ₂₅ H ₂₀ O ₁₂
Molecular Weight:	512.42
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	Quercetin pentaacetate (Pentaacetylquercetin) has diverse biological activities, including antioxidant, anti-inflammatory, and anticancer properties. Quercetin pentaacetate interacts with RSV and inhibit the viral adhesion on cell surface.
Targets(IC50)	RSV
In vitro	Quercetin pentaacetate (0-40 μM) inhibited LPS-induced PGE2 production and COX-2 gene expression in NLA/LPS or L-NAME/LPS co-treated RAW 264.7 cells [1].

Solubility Information

Solubility	DMSO: 30 mg/mL (58.55 mM),Sonication is recommended. DMSO:PBS(pH 7.2) (1:4): 1 mg/mL (1.95 mM),Sonication is recommended. Ethanol: 2 mg/mL (3.9 mM),Sonication is recommended. DMF: 30 mg/mL (58.55 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9515 mL	9.7576 mL	19.5152 mL
5 mM	0.3903 mL	1.9515 mL	3.903 mL
10 mM	0.1952 mL	0.9758 mL	1.9515 mL
50 mM	0.039 mL	0.1952 mL	0.3903 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

Y C Chen, et al. Inhibition of Nitric Oxide Synthase Inhibitors and Lipopolysaccharide Induced Inducible NOS and cyclooxygenase-2 Gene Expressions by Rutin, Quercetin, and Quercetin Pentaacetate in RAW 264.7 Macrophages. J Cell Biochem. 2001;82(4):537-48.

Bruno Rafael Pereira Lopes, et al. Quercetin Pentaacetate Inhibits in Vitro Human Respiratory Syncytial Virus Adhesion. Virus Res. 2020 Jan 15;276:197805.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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