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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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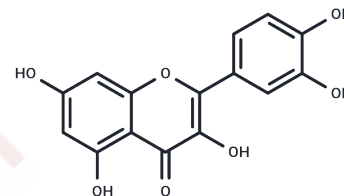
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Quercetin

Chemical Properties

CAS No. :	117-39-5
Formula:	C ₁₅ H ₁₀ O ₇
Molecular Weight:	302.24
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Quercetin, a flavonoid natural product, is a SIRT1 activator. It is also a PI3K inhibitor, inhibiting PI3K γ , PI3K δ , and PI3K β with IC ₅₀ values of 2.4, 3.0, and 5.4 μ M, respectively. Recognized as a heat shock protein inhibitor, Quercetin can significantly reduce exosome release in TII models by downregulating Hsp70 or Hsp90.
Targets(IC ₅₀)	Apoptosis,Mitophagy,Reactive Oxygen Species,PI3K,Autophagy
In vitro	In xenografts of human prostate cancer LNCaP and PC-3 cells, the combined administration of Quercetin (75 mg/kg) and 2-methoxyestradiol effectively inhibits tumor growth.
In vivo	Quercetin inhibits TNF-induced LDH release, reduces EC-dependent adhesion of neutrophils to bovine pulmonary artery endothelial cells (BPAEC), and also suppresses DNA synthesis and cell proliferation in these cells. As a PI3K inhibitor (IC ₅₀ =2.4 - 5.4 μ M), quercetin strongly inhibits PI3K and Src kinases, moderately inhibits Akt1/2, and has a slight effect on PKC, p38, and ERK1/2.

Solubility Information

Solubility	H ₂ O: < 1 mg/mL (insoluble or slightly soluble), Ethanol: 4 mg/mL (13.2 mM), DMSO: 50 mg/mL (165.43 mM), < 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3086 mL	16.5431 mL	33.0863 mL
5 mM	0.6617 mL	3.3086 mL	6.6173 mL
10 mM	0.3309 mL	1.6543 mL	3.3086 mL
50 mM	0.0662 mL	0.3309 mL	0.6617 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.

Reference

Srivastava S, et al. Quercetin, a Natural Flavonoid Interacts with DNA, Arrests Cell Cycle and Causes Tumor Regression by Activating Mitochondrial Pathway of Apoptosis. Sci Rep. 2016 Apr 12;6:24049.
Guo C R, Zhang

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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