Quercetin . dihydrate

Antioxidant flavonoid

Antioxidant flavonoid. Inhibitor of mitochondrial ATPase, cAMP- and cGMP-phosphodiesterases. Inhibitor of protein tyrosine kinases and protein kinase C (PKC). Induces apoptosis. Blocks cells at the G0/G1 interface. Activator of human deacetylase SIRT1. Reversible inhibitor of fatty acid synthase (FAS). Inhibits the production of the inflammatory mediators nitric oxide (NO), TNF-α and IL-12 in activated macrophages.Induces gastric relaxation in mouse stomach, mainly by suppressing Ca^{2+} influx through voltage-dependent calcium channels.

Citations: 28 View Online »

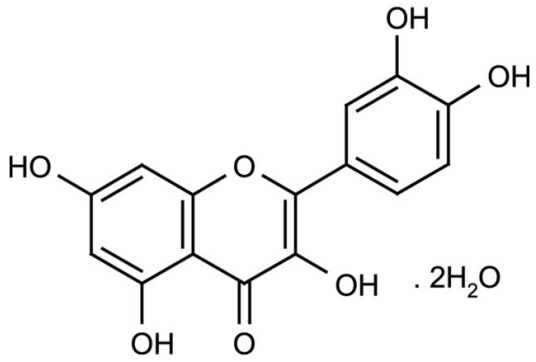
Ordering Information

Order Online »

ALX-385-001-G005	5g

Manuals, SDS & CofA

View Online »


OH
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. 2H2O
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Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended.
Long Term Storage	Ambient
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	3,3′,4′,5,7-Pentahydroxyflavone . 2H2O
Appearance	Yellow powder with a green or brown cast.
CAS	6151-25-3
Couple Target	ATPase, Fatty acid synthase, PDE, PKC, SIRT, SIRT1
Couple Type	Activator, Inhibitor
Formula	$C_{15}H_{10}O_7 \cdot 2H_2O$
MI	**14:** 8034
MW	302.2 . 36.0
Purity	≥95% (HPLC)
RTECS	LK8950000
Solubility	Soluble in 100% ethanol or 1M sodium hydroxide; almost insoluble in water.
Source	Isolated from *Sophora japonica* L.

Last modified: May 29, 2024

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