



LKT Laboratories, Inc.

Quercetin Dihydrate

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Product Information

Product ID Q8016
CAS No. 6151-25-3
Chemical Name 4 H- 1-Benzopyran-4-one-2-(3,4-dihydroxyphenyl)- 3,5,7-trihydroxy-dihydrate

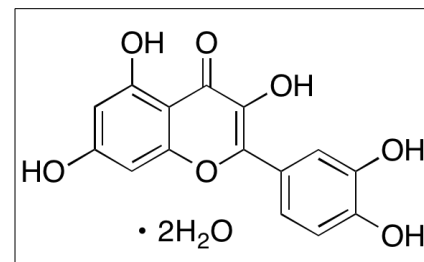
Synonym CCRIS 3304

Formula $C_{15}H_{10}O_7 \cdot 2H_2O$
Formula Wt. 338.26
Melting Point 314° C(dec)
Purity ≥95%
Solubility Soluble in ethanol (10 mg/mL, sonication). Insoluble in water.

Store Temp 4° C

Ship Temp Ambient

Description Quercetin is a phytoestrogen and flavonoid found in fruits, vegetables, and grains; it exhibits antiviral, anti-inflammatory, antihypertensive, anti-allergic, immunomodulatory, and neuromodulatory activities. Quercetin inhibits reverse transcriptase activity and suppresses replication of hepatitis C virus. In vivo, quercetin increases energy expenditure and decreases release of inflammatory cytokines. Clinically, this compound decreases blood pressure. In animal models of OVA-induced allergy, quercetin decreases levels of IL-4 and Th2 cytokines and increases levels of IFN-γ and Th1 cytokines. Quercetin also inhibits calcineurin and monoamine oxidase (MAO).



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
Q8016	25 g	\$53.60
Q8016	100 g	\$160.40
Q8016	500 g	\$641.80

References Pisonero-Vaquero S, García-Mediavilla MV, Jorquera F, et al. Modulation of PI3K-LXRα-dependent lipogenesis mediated by oxidative/nitrosative stress contributes to inhibition of HCV replication by quercetin. *Lab Invest.* 2014 Mar;94(3):262-74. PMID: 24492281.

Park HJ, Lee CM, Jung ID, et al. Quercetin regulates Th1/Th2 balance in a murine model of asthma. *Int Immunopharmacol.* 2009 Mar;9(3):261-7. PMID: 19061976.

Saaby L, Rasmussen HB, Jäger AK. MAO-A inhibitory activity of quercetin from *Calluna vulgaris* (L.) Hull. *J Ethnopharmacol.* 2009 Jan 12;121(1):178-81. PMID: 19013512.

Stewart LK, Soileau JL, Ribnick D, et al. Quercetin transiently increases energy expenditure but persistently decreases circulating markers of inflammation in C57BL/6J mice fed a high-fat diet. *Metabolism.* 2008 Jul;57(7 Suppl 1):S39-46. PMID: 18555853.

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Spedding G, Ratty A, Middleton E Jr. Inhibition of reverse transcriptases by flavonoids. *Antiviral Res.* 1989 Sep;12(2):99-110. PMID: 2480745.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.