



LKT Laboratories, Inc.

Isorhamnetin

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Product Information

Product ID I7357

CAS No. 480-19-3

Chemical Name 3,5,7-Trihydroxy-2-(4-hydroxy-3-methoxyphenyl)-4-benzopyrone

Synonym 3-Methylquercetin, Quercetin- 3'-methyl ether

Formula C₁₆H₁₂O₇

Formula Wt. 316.26

Melting Point 305° C (dec.)

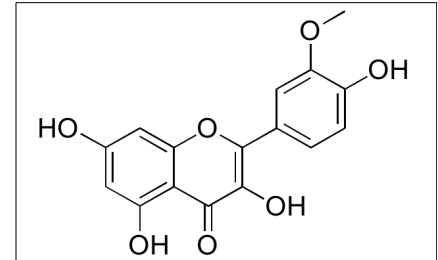
Purity ≥98%

Solubility Soluble in acetone, methanol, ethylacetate, DMSO or water.

Store Temp 4° C

Ship Temp Ambient

Description Isorhamnetin is a flavonol found in *Tagetes* that exhibits anti-obesity, anti-inflammatory, antioxidative, anticancer chemotherapeutic, and chemopreventive activities. Isorhamnetin decreases levels of PPAR γ , CEBP α , LXR α , and lipoprotein lipase in adipocytes. In animal models of edema, isorhamnetin decreases expression of COX-2 and production of ROS and increases expression of Nrf2 and heme oxygenase 1 (HO-1). In colon cancer cells, isorhamnetin inhibits cell proliferation, induces G2/M phase cell cycle arrest, increases expression of cyclin B1, and inhibits signaling of the PI3K/Akt/mTOR pathway. Additionally, this compound decreases tumor development induced by DSS and azoxymethane in vivo by inhibiting activity of Src and β -catenin.



Bulk quantities available upon request

Product ID	Size
I7357	1 mg
I7357	5 mg
I7357	25 mg

References Seo K, Yang JH, Kim SC, et al. The antioxidant effects of isorhamnetin contribute to inhibit COX-2 expression in response to inflammation: a potential role of HO-1. *Inflammation*. 2014 Jun;37(3):712-22. PMID: 24337631.

Li C, Yang X, Chen C, et al. Isorhamnetin suppresses colon cancer cell growth through the PI3K Akt mTOR pathway. *Mol Med Rep*. 2014 Mar;9(3):935-40. PMID: 24398569.

Saud SM, Young MR, Jones-Hall YL, et al. Chemopreventive activity of plant flavonoid isorhamnetin in colorectal cancer is mediated by oncogenic Src and β -catenin. *Cancer Res*. 2013 Sep 1;73(17):5473-84. PMID: 23824743.

Kim JE, Lee DE, Lee KW, et al. Isorhamnetin suppresses skin cancer through direct inhibition of MEK1 and PI3-K. *Cancer Prev Res (Phila)*. 2011 Apr;4(4):582-91. PMID: 21330379.

Lee J, Jung E, Lee J, et al. Isorhamnetin represses adipogenesis in 3T3-L1 cells. *Obesity (Silver Spring)*. 2009 Feb;17(2):226-32. PMID: 18948972.

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