

Quercetin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Quercetin

Catalog No.: CFN99272

Cas No.: 117-39-5

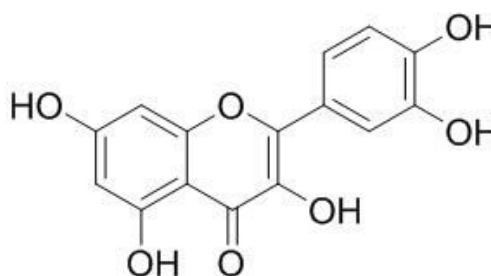
Purity: > 98%

M.F: C₁₅H₁₀O₇

M.W: 302.2

Physical Description: Yellow powder

Synonyms: 2-(3,4-dihydroxyphenyl)-3,5,7-trihydroxy-1-benzopyran-4-one.



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Food research;
4. Cosmetic research;
5. Synthetic precursor compounds;
6. Intermediates & Fine Chemicals;
7. Ingredient in supplements, beverages;
8. Others.

[Source]

The herb of *Tagetes erecta L.*

[Biological Activity or Inhibitors]

Quercetin, a member of the flavonoids family, is one of the most prominent dietary antioxidants, it is ubiquitously present in foods including vegetables, fruit, tea and wine as well as countless food supplements and is claimed to exert beneficial health effects, this includes protection against various diseases such as osteoporosis, certain forms of cancer, pulmonary and cardiovascular diseases but also against aging. ^[1]

Quercetin aglycone modulates several signal transduction pathways involving MEK/ERK and Nrf2/keap1, which is associated with the processes of inflammation and carcinogenesis.^[2]

Quercetin can attenuate the function of AR by repressing its expression, inhibit the secretion of the prostate-specific, androgen-regulated tumor markers, PSA and hK2. and has the potential to become a chemopreventive and/or chemotherapeutic agent for prostate cancer.^[3]

Quercetin and curcumin modulate ACFs correlates well with their ability to induce apoptosis via the mitochondrial pathway, may exert significant and potentially beneficial effects on decreasing the amount of precancerous lesions and inducing apoptosis in the large intestine.^[4]

Quercetin supplementation reduces blood pressure in hypertensive subjects.^[5]

[Solvent]

Chloroform, Dichloromethane, DMSO, Acetone, etc.

[HPLC Method]^[6]

Mobile phase: Methanol-0.2% Phosphoric acid in water=65:35;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 360 nm.

[Storage]

2-8°C, Protected from air and light, refrigerate or freeze.

[References]

- [1] Boots A W, Haenen G R M M, Bast A. *Eur .J. Phamarmacol. , 2008, 585(2-3):325-37.*
- [2] Murakami A, Ashida H, Terao J. *Cancer Lett., 2008, 269(2):315-25.*
- [3] Xing N, Chen Y, Mitchell S H, *et al. Carcinogenesis, 2001, 22(22):409-14.*
- [4] Volate S R, Davenport D M, Muga S J, *et al. Carcinogenesis, 2005, 26(8):1450-6.*
- [5] Edwards R L, Lyon T, Litwin S E, *et al. Brit. J. Nutr., 2007, 137(11):2405-11.*
- [6] Liu H P, Shi X F, Zhang Y C, *et al. Cell Biochem. Biophy., 2011, 61(1):59-64.*

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