(±)-Taxifolin hydrate

Catalog Number T4512
Storage Temperature –20 °C

CAS RN 24198-97-8 (anhydrous)
Synonyms: 3,3′,4′,5,7-Pentahydroxyflavanone hydrate; Dihydroquercitin hydrate

Product Description
Molecular Formula: C15H12O7⋅xH2O
Molecular Weight: 304.25 (anhydrous)

Taxifolin is a flavenoid commonly found in plants. It can also be synthetically produced from quercetin. It is a highly potent antioxidant. It has been shown to suppress the cytotoxicity of superoxide ions and hydrogen peroxide in cultured mammalian cell lines.1 The metal chelating properties of flavonoids indicate that they may play a role in metal-overload diseases and in all oxidative stress conditions involving a transition metal ion.

Flavonoids are divided into many categories, including flavonols (catechins), flavones (apigenin, luteolin, kaempferol, quercetin, myricetin, and rutin), proanthocyanidins, anthocyanidins, flavanones (taxifolin, naringenin, and naringin), and isoflavonoids (daidzein and genistein).2 Flavonoids have many functions in plants. They act as cell wall support materials3 and as colorful attractants for birds and insects helping seed dispersal and pollination.4

Precautions and Disclaimer
This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Preparation Instructions
This product is soluble in DMSO (20 mg/mL) and ethanol (20 mg/mL).

Storage/Stability
Store the product at –20 °C.

References

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