



Acacetin

CAS # 480-44-4

EXIM-INDIS INC
EVOLVING CHEMISTRY

Product In Focus

Acacetin

INTRODUCTION

Acacetin is a highly lipophilic compound with poor water solubility, which can limit its oral bioavailability. It is primarily studied for its natural medicinal properties and is not typically used for human or veterinary medical treatment outside of research contexts.

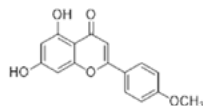
MANUFACTURE

Acacetin is a natural O-methylated flavone (5,7-dihydroxy-4'-methoxyflavone) primarily extracted from plants like Robinia pseudoacacia or synthesized as a research compound. Synthesis methods include O-methylation of apigenin at the 4'-position, or total synthesis starting from simpler phenolic compounds.

KEY DETAILS

CAS No	480-44-4
Molecular Formula	C ₁₆ H ₁₂ O ₅
Molecular Weight	284.26 g/mol
Synonyms	5,7-Dihydroxy-4'-methoxyflavone; 4'-Methoxyapigenin; Linarigenin; Apigenin 4'-methyl ether
Appearance	White to yellow/orange powder or crystalline substance
Melting Point	260-265 °C
Source	Found in plants like Robinia pseudoacacia, Turnera diffusa (Damiana), and Chrysanthemum species

Structure



APPLICATION

Pharmaceutical and life science research

- Widely studied for its antioxidant, anti-inflammatory, and potential therapeutic properties.

Nutraceutical and dietary supplement formulations

- Used in wellness and preventive health research formulations.

Cosmetic and personal care applications

- Incorporated into skincare research for antioxidant and skin soothing benefits.

Antioxidant and anti-inflammatory studies

- Commonly used in studies related to oxidative stress and inflammation control.

Cardiovascular and neuroprotective research

- Explored for potential heart health and neuroprotective benefits.

Natural product and botanical extract research

- Used as an active flavonoid marker in botanical and herbal extract analysis.

Antimicrobial and cellular protection studies

- Studied for its ability to support cellular protection and microbial inhibition.

Reference standard for phytochemical analysis

- Used as a reference compound in analytical and quality control testing.



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SPECIFICATIONS

Test	Specification
Description	White to off white
Purity	> 98%

STORAGE & PRECAUTION

Store at ambient conditions

PACKING

Custom packing available upon request

GMP STATUS

Manufactured under cGMP or non GMP conditions based on customer specifications and intended application.

Exim-Indis offers Acacetin on commercial scales and welcomes enquiries. No matter the quantity you need, our exceptional quality and service will make Exim-Indis your supplier of choice. If you need any additional information or SDS, please contact us.