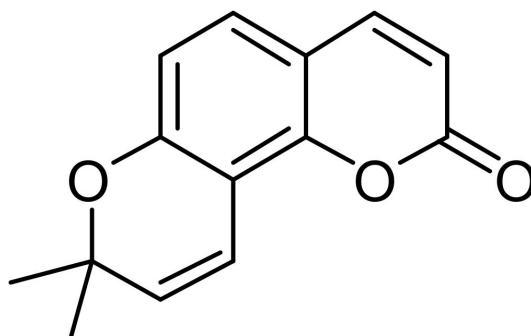


Seselin

Code No.: BIA-S1776

Pack sizes.: 1mg, 5mg



Synonyms:
Amyrolin, Seseline

Specifications

CAS #	: 523-59-1
Molecular Formula	: C14H12O3
Molecular Weight	: 228.24
Source	: -
Appearance	: Light yellow solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO.

Application Notes

Seselin is a pyranocoumarin isolated from the fruits of *Seseli indicum* by Spath and colleagues in 1939. Seselin was subsequently isolated from a number of fruits of diverse species, most notably star anise. More recently, seselin has been isolated efficiently from the Australian native fuchsia, *Correa reflexa*, by pressurised hot water extraction. Seselin plays an important role in the regulation of root growth. Seselin inhibits radicle growth in seedlings and antagonises gibberellic acid-induced release of reducing sugars from barley endosperm. Seselin also inhibits the development of blow fly larvae and is anti-inflammatory, cytotoxic, antifungal and spasmolytic.

References

1. The mass spectra of some naturally occurring oxygen heterocycles and related compounds. Barnes C.S. & Occolowitz J.L., Aust. J. Chem. 1964, 17,975.
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3. Effects of seselin and coumarin on growth, indoleacetic acid oxidase, and peroxidase, with special reference

to cucumber (*Cucumis sativa* L.) radicles. Raphael G. & Eliahu T., *Plant Physiol.* 1971, 47, 312.

4. Pressurized hot water extraction as a viable bioprospecting tool: Isolation of coumarin natural products from previously unexamined *Correa* (Rutaceae) species. Bianca J.D. et al., *Chemistry Select* 2017, 2, 2439.