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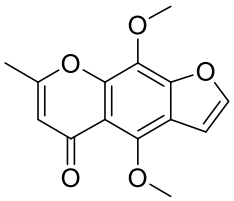
PRODUCT DATA SHEET

Khellin

Code No.: **BIA-K2592**

Pack sizes: **5 mg, 25 mg**



Synonyms : 5,8-Dimethoxy-2-methyl-6,7-furanochromone

Specifications

CAS #	:	**82-02-0**
Molecular Formula	:	**$C_{14}H_{12}O_5$**
Molecular Weight	:	**260.2**
Source	:	***Ammi visnaga***
Appearance	:	**Pale yellow solid**
Purity	:	**>95% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in methanol or DMSO.**

Application Notes

Khellin is a constituent of the fruit of Ammi visnaga structurally related to psoralen. Khellin displays a range of pharmacological activities including anthelmintic, bronchodilator, vasodilator and antidiabetic properties. Khellin exhibits spasmolytic activity. Khellin is a photosensitising agent which has been used for the treatment of vitiligo in humans. Khellin may intercalate with DNA.

References

1. S 6. Furochromones. Part I. The synthesis of khellin. Baxter R.A. et al. J Chem Soc. 1949, S30-S33.
2. Pharmacological actions of the crystalline principles of Ammi visnaga. Anrep G.V. et al. J Pharmacy Pharmacol. 1949, 1, 164.
3. Phototherapeutic, photobiologic, and photosensitizing properties of khellin. Morliere D. et al. J Inv Dermatol. 1988, 90, 720.
4. Computational study of khellin excited states and photobinding to DNA. Omar S. and Eriksson L.A. Photochem Photobiol Sci. 2009, 8, 1179.

For in vitro laboratory use only. Not for human or animal use.

Updated: 14 November 2025

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