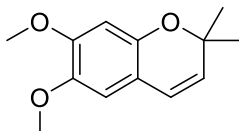


6,7-Dimethoxy-2,2-dimethyl-3-chromene

Code No.: **BIA-D2587**

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



Synonyms :

Specifications

CAS #	: 644-06-4
Molecular Formula	: C ₁₃ H ₁₆ O ₃
Molecular Weight	: 220.3
Source	: Synthetic
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in methanol or DMSO

Application Notes

6,7-dimethoxy-2,2-dimethyl-3-chromene (ageratochromene) is a metabolite of some plants including *Ageratum* spp. and *Verbesina* spp. Its synthesis was reported in 1958. 6,7-dimethoxy-2,2-dimethyl-3-chromene induces premature ecdysis in insects, resulting in death either during or within a short time before or after the molting process. 6,7-dimethoxy-2,2-dimethyl-3-chromene also sterilizes mature insects, interrupts embryogenesis in insect eggs, induces diapause and prevents sex pheromone secretion in insects.

References

1. Synthesis of substituted chromenes. Synthesis of 6,7-dimethoxy-2,2-dimethyl-3-chromene (ageratochromene). Huls R. Bulletin des Societes Chimiques Belges 1958, 67, 22.
2. Effect of precocene II on the embryonic development of the shield bug *Eurygaster integriceps* Puton, Insecta, Hemiptera. Polivanova E.N. Doklady Akademii Nauk SSSR 1982, 263, 501.
3. Anti-juvenile hormones. Bowers W.S. US Patent US-4656189-A 1987.