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- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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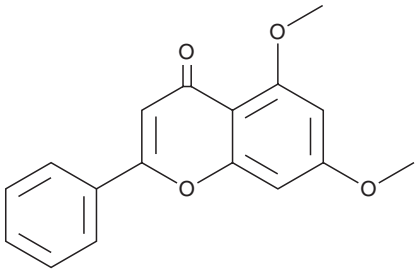
PRODUCT INFORMATION

5,7-Dimethoxyflavone

Item No. 37361

CAS Registry No.:	21392-57-4
Formal Name:	5,7-dimethoxy-2-phenyl-4H-1-benzopyran-4-one
Synonym:	5,7-DMF
MF:	$C_{17}H_{14}O_4$
FW:	282.3
Purity:	≥98%
UV/Vis.:	λ_{max}: 212, 264, 306 nm
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years
Item Origin:	Plant/*Zingiber officinale*



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

5,7-Dimethoxyflavone (5,7-DMF) is supplied as a solid. A stock solution may be made by dissolving the 5,7-DMF in the solvent of choice, which should be purged with an inert gas. 5,7-DMF is soluble in DMSO and methanol.

Description

5,7-DMF is a flavonoid that has been found in *B. pandurata* and has diverse biological activities.[1-3] It induces the production of reactive oxygen species (ROS), cell cycle arrest at the G_1 phase, and apoptosis in HepG2 liver cancer cells when used at concentrations of 10, 25, and 50 µM.[1] *In vivo*, 5,7-DMF (75-150 mg/kg) reduces exudate volume and inhibits prostaglandin production in a rat model of carrageenan-induced pleurisy.[2] It reduces rectal temperature in a rat model of yeast-induced hyperthermia. 5,7-DMF also reduces serum triglyceride, total cholesterol, and LDL levels, as well as increases serum insulin levels and reduces blood glucose levels in a rat model of diabetes induced by streptozotocin (STZ; Item No. 13104).[3]

References

1. Li, H., Zhang, X., and Wang, W. Anticancer activity of 5, 7 dimethoxyflavone against liver cancer cell line HepG2 involves apoptosis, ROS generation and cell cycle arrest. *Afr. J. Tradit. Complement. Altern. Med.* **14(4)**, 213-220 (2017).
2. Panthong, A., Tassaneeyakul, W., Kanjanapothi, D., *et al*. Anti-inflammatory activity of 5,7-dimethoxyflavone. *Planta Med.* **55(2)**, 133-136 (1989).
3. Xie, Y., Zhang, Y., and Su, X. Antidiabetic and hypolipidemic effects of 5,7-dimethoxyflavone in streptozotocin-induced diabetic rats. *Med. Sci. Monit.* **25**, 9893-9901 (2019).

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