



# SZABO SCANDIC

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## Produktinformation



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Laborgeräte & Service

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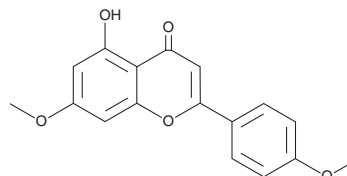
# PRODUCT INFORMATION



## 7,4'-Di-O-methylapigenin

Item No. 35388

**CAS Registry No.:** 5128-44-9  
**Formal Name:** 5-hydroxy-7-methoxy-2-(4-methoxyphenyl)-4H-1-benzopyran-4-one  
**Synonyms:** Acacetin 7-methyl ether, Apigenin 7,4'-dimethyl ether, Dimethoxylapigenin, Genkwanin 4'-methyl ether, 5-Hydroxy-7,4'-dimethoxyflavone, 4'-Methoxytecto-chrysin  
**MF:** C<sub>17</sub>H<sub>14</sub>O<sub>5</sub>  
**FW:** 298.3  
**Purity:** ≥98%  
**UV/Vis.:** λ<sub>max</sub>: 269, 324 nm  
**Supplied as:** A solid  
**Storage:** -20°C  
**Stability:** ≥4 years  
**Item Origin:** Semisynthetic



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

### Laboratory Procedures

7,4'-Di-O-methylapigenin is supplied as a solid. A stock solution may be made by dissolving the 7,4'-di-O-methylapigenin in the solvent of choice, which should be purged with an inert gas. 7,4'-Di-O-methylapigenin is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of 7,4'-di-O-methylapigenin in these solvents is approximately 1 and 3 mg/ml, respectively.

### Description

7,4'-Di-O-methylapigenin is a flavonoid that has been found in *T. diffusa* and has diverse biological activities.<sup>1-5</sup> It inhibits monoamine oxidase B (MAO-B) but not MAO-A (IC<sub>50</sub>s = 0.198 and >100 μM, respectively), as well as p38α MAPK but not JNK3 (IC<sub>50</sub>s = 27.8 and >100 μM, respectively).<sup>1,2</sup> 7,4'-Di-O-methylapigenin inhibits the production of nitric oxide (NO) in LPS-stimulated RAW 264.7 macrophages (IC<sub>50</sub> = 24.5 μM).<sup>3</sup> It reduces the growth of *C. albicans* when used at a concentration of 45 μg/ml.<sup>4</sup> 7,4'-Di-O-methylapigenin inhibits carrageenan-induced edema in rats (ED<sub>25</sub> = 75 mg/kg).<sup>5</sup>

### References

1. Chaurasiya, N.D., Zhao, J., Pandey, P., et al. *Molecules* **24**(4), 810 (2019).
2. Goettert, M., Schattel, V., Koch, P., et al. *Chembiochem* **11**(18), (2010).
3. Tewtrakul, S. and Subhadrirasakul, S. *J. Ethnopharmacol.* **120**(1), 81-84 (2008).
4. Mangoyi, R., Midiwo, J., and Mukanganyama, S. *BMC Complement. Altern. Med.* **15**, 405 (2015).
5. Fourie, R.G. and Snyckers, F.O. *J. Nat. Prod.* **47**(6), 1057-1058 (1984).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

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