

# PRODUCT INFORMATION



## Physcion

Item No. 19863

CAS Registry No.: 521-61-9

Formal Name: 1,8-dihydroxy-3-methoxy-6-methyl-9,10-anthracenedione

Synonyms: 6-O-methyl Emodin, NSC 251670

MF: C<sub>16</sub>H<sub>12</sub>O<sub>5</sub>

FW: 284.3

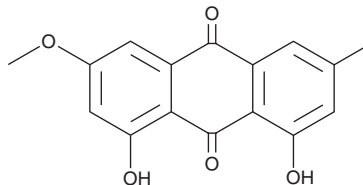
Purity: ≥98%

UV/Vis.: λ<sub>max</sub>: 223, 266, 286, 434 nm

Supplied as: A crystalline solid

Storage: -20°C

Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



### Description

Physcion is a natural anthraquinone. It has been reported to have laxative and anti-inflammatory actions, inhibit kinases and tyrosinase, and have cytotoxicity against cancer cells.<sup>1</sup> Physcion inhibits 6-phosphogluconate dehydrogenase (IC<sub>50</sub> = 38.5 μM), decreasing lipogenesis and RNA biosynthesis in cancer cells, leading to reduced cell proliferation and tumor growth in mice.<sup>2</sup>

### References

1. Chien, S.-C., Wu, Y.-C., and Chen, Z.-W. Naturally occurring anthraquinones: Chemistry and therapeutic potential in autoimmune diabetes. *Evid. Based Complement. Alternat. Med.* **2015:35757** (2015).
2. Lin, R., Elf, S., Shan, C., *et al.* 6-Phosphogluconate dehydrogenase links oxidative PPP, lipogenesis and tumour growth by inhibiting LKB1-AMPK signalling. *Nat. Cell Biol.* **17(11)**, 1484-1496 (2015).

#### 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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