



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



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Laborgeräte & Service

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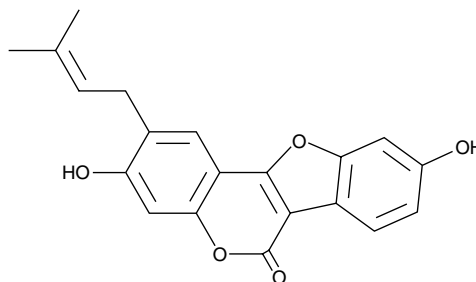
# Product Information



## Psoralidin

Item No. 15119

**CAS Registry No.:** 18642-23-4  
**Formal Name:** 3,9-dihydroxy-2-(3-methyl-2-buten-1-yl)-6H-benzofuro[3,2-c][1]benzopyran-6-one  
**MF:** C<sub>20</sub>H<sub>16</sub>O<sub>5</sub>  
**FW:** 336.3  
**Purity:** ≥95%  
**Stability:** ≥2 years at -20°C  
**Supplied as:** A crystalline solid  
**UV/Vis.:** λ<sub>max</sub>: 243, 306, 347 nm



### Laboratory Procedures

For long term storage, we suggest that psoralidin be stored as supplied at -20°C. It should be stable for at least two years.

Psoralidin is supplied as a crystalline solid. A stock solution may be made by dissolving the psoralidin in the solvent of choice. Psoralidin is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of psoralidin in these solvents is approximately 14 mg/ml.

Psoralidin is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, psoralidin should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. Psoralidin has a solubility of approximately 0.33 mg/ml in a 1:2 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Psoralidin is a furanocoumarin isolated from the seeds of *P. corylifolia*, a medicinal plant found in southeastern Asia, that has been shown to induce cytotoxicity against various cancer cells.<sup>1</sup> Through TNF-related apoptosis-inducing ligand-mediated events, psoralidin at 50 μM can induce the death of HeLa cancer cells.<sup>2</sup> It also can induce apoptosis of androgen-dependent (LNCaP, C4-2B) and androgen-independent (DU-145, PC-3) prostate cancer cells and inhibit the growth of PC-3 xenograft tumors in nude mice.<sup>3</sup>

### References

1. Pahari, P. and Rohr, J. Total synthesis of psoralidin, an anticancer natural product. *J. Org. Chem.* **74**(7), 2750-2754 (2009).
2. Bronikowska, J., Szliszka, E., Jaworska, D., *et al.* The coumarin psoralidin enhances anticancer effect of tumor necrosis factor-related apoptosis-inducing ligand (TRAIL). *Molecules* **17**(6), 6449-6464 (2012).
3. Kumar, R., Srinivasan, S., Pahari, P., *et al.* Activating SAPK-mediated cell death and inhibiting EGFR signaling: A promising therapeutic strategy for prostate cancer. *Mol. Cancer Ther.* **9**(9), 2488-2496 (2010).

### Related Products

For a list of related products please visit: [www.caymanchem.com/catalog/15119](http://www.caymanchem.com/catalog/15119)

**WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

#### SAFETY DATA

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