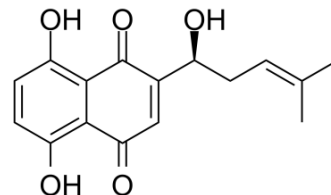


## Alkannin

Cat. No.:	HY-N6012
CAS No.:	517-88-4
Molecular Formula:	C <sub>16</sub> H <sub>16</sub> O <sub>5</sub>
Molecular Weight:	288.3
Target:	Apoptosis
Pathway:	Apoptosis
Storage:	Please store the product under the recommended conditions in the COA.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Alkannin, found in <i>Alkanna tinctoria</i> , is used as a food coloring. Alkannin shows anticancer activity, arrests cell cycle, and induces <b>apoptosis</b> . Alkannin improves hepatic inflammation in a Rho-kinase pathway <sup>[1][2][3]</sup> .
<b>In Vitro</b>	Alkannin inhibits HCT-116 and SW-480 cells growth with IC <sub>50</sub> s of 2.38 and 4.53 μM, respectively <sup>[1]</sup> .

### REFERENCES

- [1]. Hosokawa Y, et al. Alkannin inhibits CCL3 and CCL5 production in human periodontal ligament cells. *Cell Biol Int*. 2016 Dec;40(12):1380-1385.
- [2]. Huu Tung N, et al. Naphthoquinone components from *Alkanna tinctoria* (L.) Tausch show significant antiproliferative effects on human colorectal cancer cells. *Phytother Res*. 2013 Jan;27(1):66-70.
- [3]. Xue W, et al. Alkannin Inhibited Hepatic Inflammation in Diabetic Db/Db Mice. *Cell Physiol Biochem*. 2018;45(6):2461-2470.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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