

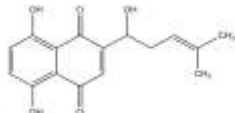
**PRODUCT: Shikonin**

**ALTERNATE NAME:** (±)-Alkannin, (±)-Shikalkin, (±)-Shikonin, (±)-5,8-Dihydroxy-2-(1-hydroxy-4-methyl-3-pentenyl)-1,4-naphthoquinone

**CATALOG #:** B1056-10, 50

**AMOUNT:** 10 mg, 50 mg

**STRUCTURE:**



**MOLECULAR FORMULA:** C<sub>16</sub>H<sub>16</sub>O<sub>5</sub>

**MOLECULAR WEIGHT:** 288.30

**CAS NUMBER:** 517-89-5

**APPEARANCE:** Red to brown solid

**SOLUBILITY:** DMSO (~10 mg/ml)

**PURITY:** ≥98% by HPLC

**STORAGE:** Store at -20°C. Protect from air and light

**DESCRIPTION:** Shikonin is a naturally occurring naphthoquinone derivative that displays anti-inflammatory and antitumor properties. Displays anti-angiogenic properties by inhibition of proliferation and migration of endothelial cells, blocking integrin αvβ3 expression, etc. Shikonin also inhibits cancer cell glycolysis by targeting tumor pyruvate kinase M2 (PKM2).

**REFERENCES:** Chen, J., *et al.* (2011). *Oncogene* **30**, 4297-4306.

**HANDLING:** Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

**RELATED PRODUCTS:**

3-Bromopyruvic acid (**B1045**)

Oxythiamine Chloride Hydrochloride (**B1046**)

6-Aminonicotinamide (**B1047**)

2-Deoxy-D-glucose (**B1048**)

Lonidamine (**Cat. No. B1058**)

Shikonin (**Cat. No. B1056**)

**USAGE:** **FOR RESEARCH CH USE ONLY! Not to be used in humans**