

紫草素

中文名：紫草素

英文名：Shikonin

CAS 号：517-89-5

分子式：C₁₆H₁₆O₅

分子量：288.30

属 性

溶解性 Soluble in DMSO (10 mg/ml).

存贮条件 储存温度 2-8°C

密 度 1.3730

荧 光 否

IC50 否

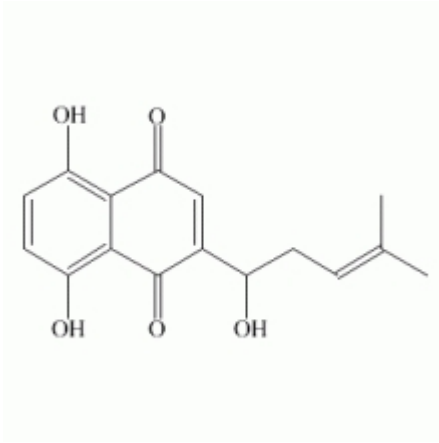
pK Values 否

描 述

别名 5,8- 二 羟 基 -2-[(1R)-1- 羟 基 -4- 甲 基 戊 -3- 烯 基] 萘 -1,4- 二 酮;5,8-Dihydroxy-2-[(1R)-1-hydroxy-4-methyl-pent-3-enyl]naphthalene-1,4-dione

用 途 A naphthoquinone derivative with angiogenesis inhibitor properties.

生化机理 Shikonin is a naturally occurring active chemical found in the root of Lithospermum erythrorhizon and used as a Chinese herb. The compound is a naphthoquinone derivative and has been shown to have anti-inflammatory and anti-tumor properties, as well as



alter chemokine expression and function. Angiogenesis studies have shown that Shikonin can inhibit proliferation and migration of endothelial cells, block integrin $\alpha v \beta 3$ expression, and inhibit B16 melanoma- and tumor necrosis factor-alpha-induced angiogenesis in mice. Shikonin can down-regulate protein and mRNA expression of CKR-5 (CCR5), a primary HIV-1 coreceptor, in macrophages in HIV studies. Shikonin is an inhibitor of PKM2.