

## Product Datasheet

### Acetyl shikonin (orb1222466)

<b>Catalog Number</b>	orb1222466
<b>Category</b>	Small Molecules
<b>Description</b>	<p>Acetylshikonin exhibits weak cytotoxicity against human umbilical vein endothelial cells (HUVECs) with IC<sub>50</sub> of over 2 microM, exhibits the antiangiogenic and antitumorigenic effects by suppressing proliferation and angiogenic factors. Acetylshikonin inhibits the generation of NADPH oxidase complex in the activation of respiratory burst of PMNs, but does not directly inhibit the activity of NADPH oxidase already generated. Certain shikonin derivatives (such as Acetyl shikonin) act as modulators of the Nur77-mediated apoptotic pathway and identify a new shikonin-based lead that targets Nur77 for apoptosis induction. Acetylshikonin, shikonin, and alkannin have accelerative effect on the proliferation of granulation tissue in rats. Acetylshikonin has inhibitory effect on the edematous response is due neither to the release of steroid hormones from the adrenal gland nor to the glucocorticoid activity, but probably partly to the suppression of mast cell degranulation and partly to protection of the vasculature from mediator challenge. Acetylshikonin induces apoptosis of hepatitis B virus X protein-expressing human hepatocellular carcinoma cells via endoplasmic reticulum stress.</p>
<b>Target</b>	Others
<b>Purity</b>	>98% (HPLC)
<b>MW</b>	330.33
<b>Solubility (25°C)</b>	In Vitro: DMSO : 50 mg/mL (151.36 mM)
<b>CAS Number</b>	24502-78-1
<b>Formula</b>	C <sub>18</sub> H <sub>18</sub> O <sub>6</sub>
<b>SMILES</b>	CC(=CCC(C1=CC(=O)C2=C(C=CC(=C2C1=O)O)O)OC(=O)C)C

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<b>Storage</b>	Storage temperature: -20°C. Stability: $\geq$ 2 years
<b>Note</b>	For research use only
<b>Expiration Date</b>	12 months from date of receipt.

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