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产品名称: **Dafadine-A**
产品别名: **Dafadine-A**

生物活性:					
Description	Dafadine-A, an analog of dafadine, is a novel inhibitor of DAF-9 cytochrome P450 in the nematode <i>Caenorhabditis elegans</i> ; also inhibits the mammalian ortholog of DAF-9(CYP27A1). IC50 value: Target: DAF-9(CYP27A1) inhibitor The DAF-9 cytochrome P450 is a key regulator of dauer formation, developmental timing and longevity in the nematode <i>Caenorhabditis elegans</i> . Here we describe the first identified chemical inhibitor of DAF-9 and the first reported small-molecule tool that robustly induces dauer formation in typical culture conditions. This molecule (called dafadine) also inhibits the mammalian ortholog of DAF-9(CYP27A1), suggesting that dafadine can be used to interrogate developmental control and longevity in other animals.				
	<p>In Vitro:</p> <p>DMSO : 50 mg/mL (127.73 mM; Need ultrasonic)</p> <table><tr><td rowspan="4">Preparing </td></tr></table>				
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	<p>3.请依序添加每种溶剂: 10% DMSO →90% corn oil</p> <p>Solubility: ≥ 2.5 mg/mL (6.39 mM); Clear solution</p> <p>此方案可获得 ≥ 2.5 mg/mL (6.39 mM, 饱和度未知) 的澄清溶液, 此方案不适用于实验周期在半个月以上的实验。</p> <p>以 1 mL 工作液为例, 取 100 μL 25.0 mg/mL 的澄清 DMSO 储备液加到 900 μL 玉米油中, 混合均匀。</p>
References	<p>[1]. Luciani GM, et al. Dafadine inhibits DAF-9 to promote dauer formation and longevity of <i>Caenorhabditis elegans</i>. Nat Chem Biol. 2011 Nov 6;7(12):891-3.</p>



源叶生物