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产品名称: 双醋酚丁  
产品别名: **Oxyphenisatin acetate**

生物活性:				
Description	Oxyphenisatin acetate, the pro-drug of oxyphenisatin, is used to be a laxative.			
In Vitro	Oxyphenisatin acetate inhibits the growth of the breast cancer cell lines MCF7, T47D, HS578T, and MDA-MB-468. In the estrogen receptor (ER) positive MCF7 and T47D cells, oxyphenisatin acetate induces TNF $\alpha$ expression and TNFR1 degradation, indicating autocrine receptor-mediated apoptosis in these lines. Ten micromoles per liter Oxyphenisatin acetate treatment results in autophagy and mitochondrial dysfunction[1].			
In Vivo	Oxyphenisatin acetate (300 mg/kg, i.p.) delivers intraperitoneally inhibited tumor growth, accompanied by phosphorylation of eIF2 $\alpha$ and degradation of TNFR1 in an MCF7 xenograft model[1].			
Solvent&Solubility	<b>In Vitro:</b> DMSO : 100 mg/mL (249.12 mM; Need ultrasonic)			
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg
		1 mM	2.4912 mL	12.4561 mL
		5 mM	0.4982 mL	2.4912 mL
		10 mM	0.2491 mL	1.2456 mL
	*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液; 一旦配成溶液, 请分装保存, 避免反复冻融造成的产品失效。 储备液的保存方式和期限: -80°C, 6 months; -20°C, 1 month。 -80°C 储存时, 请在 6 个月内使用, -20°C 储存时, 请在 1 个月内使用。 <b>In Vivo:</b> 请根据您的实验动物和给药方式选择适当的溶解方案。以下溶解方案都请先按照 In Vitro 方式配制澄清的储备液, 再依次添加助溶剂: ——为保证实验结果的可靠性, 澄清的储备液可以根据储存条件, 适当保存; 体内实验的工作液, 建议您现用现配, 当天使用; 以下溶剂前显示的百分比是指该溶剂在您配制终溶液中的体积占比; 如在配制过程中出现沉淀、析出现象, 可以通过加热和/或超声的方式助溶 1.请依序添加每种溶剂: 10% DMSO→40% PEG300 →5% Tween-80 → 45% saline Solubility: 2.5 mg/mL (6.23 mM); Suspended solution; Need ultrasonic 此方案可获得 2.5 mg/mL (6.23 mM)的均匀悬浊液, 悬浊液可用于口服和腹腔注射。 以 1 mL 工作液为例, 取 100 $\mu$ L 25.0 mg/mL 的澄清 DMSO 储备液加到 400 $\mu$ L PEG300 中, 混合均匀向上述体系中加入 50 $\mu$ L Tween-80, 混合均匀; 然后继续加入 450 $\mu$ L 生理盐水定容至 1 mL。  2.请依序添加每种溶剂: 10% DMSO →90% corn oil Solubility: $\geq$ 2.5 mg/mL (6.23 mM); Clear solution 此方案可获得 $\geq$ 2.5 mg/mL (6.23 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。 以 1 mL 工作液为例, 取 100 $\mu$ L 25.0 mg/mL 的澄清 DMSO 储备液加到 900 $\mu$ L 玉米油中, 混合均匀。			



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<b>References</b>	[1]. Morrison BL, et al. Oxyphenisatin acetate (NSC 59687) triggers a cell starvation response leading to autophagy, mitochondrial dysfunction, and autocrine TNF $\alpha$ -mediated apoptosis. Cancer Med. 2013 Oct;2(5):687-700.
<b>实验参考:</b>	
<b>Animal Administration</b>	Assessment in several other tumor models demonstrates tolerability with oxyphenisatin acetate at 300 mg/kg given once daily or 200 mg/kg given twice daily. For the MCF-7 study treatments are administered on an exact body weight basis using dose volumes of 1-2 mL/kg body weight. The vehicle control receives 100% DMSO. The treated group receives 300 mg/kg oxyphenisatin acetate once daily for a total of 10 days, followed by a 3 day rest and an additional 6 days of dosing. The dose solutions are prepared in 100% DMSO, aliquoted and stored frozen until used. The mice are monitored for a total of 52 days with treatment initiation occurring on day 27 posttumor implantation[1].
<b>References</b>	[1]. Morrison BL, et al. Oxyphenisatin acetate (NSC 59687) triggers a cell starvation response leading to autophagy, mitochondrial dysfunction, and autocrine TNF $\alpha$ -mediated apoptosis. Cancer Med. 2013 Oct;2(5):687-700.

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