## Elaiophylin

Cat. No.:	HY-15184		
CAS No.:	37318-06-2		
Molecular Formula:	C <sub>54</sub> H <sub>88</sub> O <sub>18</sub>		
Molecular Weight:	1025.27		
Target:	Autophagy	, Antibiot	ic
Pathway:	Autophagy	; Anti-infe	ection
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month

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SOLVENT & SOLUB	BILITY
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (2.44 mM); Suspended solution; Need ultrasonic
	<ol> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (2.44 mM); Clear solution</li> </ol>

Display biological ActivityDescriptionElaiophylin (Azalomycin B; Gopalamicin; Efomycin E) is an autophagy inhibitor, exerts antitumor activity as a single agent in ovarian cancer cells <sup>[1]</sup> .IC <sub>so</sub> & TargetAutophagy <sup>[1]</sup> In VitroElaiophylin-mediated autophagy inhibition and lysosomal dysfunction affect ovarian cancer cell survival during hypoxia. Exposure to Elaiophylin (0.025-0.5 μM; 24 hours) causes a significant increase in ovarian cancer SKOV3 cell death in hypoxia conditions <sup>[1]</sup> . In both the SKOV3 and A2780 cell lines, Elaiophylin (0.25, 0.5, 0.75 μM; 24 hours) treatment leads to significant activation of cleaved CASP9/caspase-9 and PARP1 and downregulation of BIRC5/survivin in a concentration-dependent manner <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay <sup>[1]</sup>			
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	In Vitro	Elaiophylin-mediated autop Exposure to Elaiophylin (0.0 conditions <sup>[1]</sup> . In both the SKOV3 and A278 cleaved CASP9/caspase-9 a MCE has not independently Cell Viability Assay <sup>[1]</sup>	phagy inhibition and lysosomal dysfunction affect ovarian cancer cell survival during hypoxia. 025-0.5 μM; 24 hours) causes a significant increase in ovarian cancer SKOV3 cell death in hypoxia 80 cell lines, Elaiophylin (0.25, 0.5, 0.75 μM; 24 hours) treatment leads to significant activation of nd PARP1 and downregulation of BIRC5/survivin in a concentration-dependent manner <sup>[1]</sup> .
Cell Line: Ovarian cancer SKOV3 cells.		Cell Line:	Ovarian cancer SKOV3 cells.
Concentration: 0.025, 0.05, 0.1, 0.2, 0.5 μM		Concentration:	0.025, 0.05, 0.1, 0.2, 0.5 μΜ
Incubation Time: 24 hours		Incubation Time:	24 hours
Result: Caused a significant increase in ovarian cancer SKOV3 cells death in hypoxia conditions.		Result:	Caused a significant increase in ovarian cancer SKOV3 cells death in hypoxia conditions.
Western Blot Analysis <sup>[1]</sup>		Western Blot Analysis <sup>[1]</sup>	
Cell Line: Ovarian cancer SKOV3 cells; A2780 cells		Cell Line:	Ovarian cancer SKOV3 cells; A2780 cells

	Concentration:	0.25, 0.5, 0.75 μM
	Incubation Time:	24 hours
	Result:	Treatment led to significant activation of cleaved CASP9/caspase-9 and PARP1 and downregulation of BIRC5/survivin in a concentration-dependent manner.
ı Vivo	Treatment with 2 mg/kg ovarian cancer SKOV3 co growth rate compared v Lower doses of Elaiophy Administration of a lowe toxicity in an orthotopic MCE has not independe	Elaiophylin (given i.p. every 2 days for 21 days; in BALB/C athymic mice) significantly suppresses ells growth compared with DMSO treatment, resulting in a 72% decrease in the average daily tumor with DMSO treatment <sup>[1]</sup> . If as a single agent exert significant antitumor activity, while higher doses lead to intestinal toxicity. er dose (2 mg/kg) of Elaiophylin as a single agent achieves a significant antitumor effect without ovarian cancer model with metastasis. Toxic reactions are observed only in the 8 mg/kg group <sup>[1]</sup> . htly confirmed the accuracy of these methods. They are for reference only.
	Animal Model:	4-wk-old BALB/C athymic mice with ovarian cancer SKOV3 ${\sf cells}^{[1]}$
	Dosage:	1 or 2 mg/kg
	Dosage: Administration:	1 or 2 mg/kg Given i.p. every 2 days for 21 days

## REFERENCES

[1]. Zhao X, et al Elaiophylin, a novel autophagy inhibitor, exerts antitumor activity as a single agent in ovarian cancer cells. Autophagy. 2015;11(10):1849-63.

Caution: Product has not been fully validated for medical applications. For research use only.

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