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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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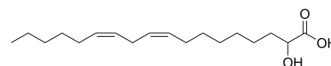
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ABTL-0812

Cat. No.:	HY-U00141
CAS No.:	57818-44-7
Molecular Formula:	C ₁₈ H ₃₂ O ₃
Molecular Weight:	296.44
Target:	Autophagy
Pathway:	Autophagy
Storage:	Pure form -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 90 mg/mL (303.60 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration Mass	1 mg	5 mg	10 mg
		1 mM	3.3734 mL	16.8668 mL	33.7336 mL
		5 mM	0.6747 mL	3.3734 mL	6.7467 mL
		10 mM	0.3373 mL	1.6867 mL	3.3734 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (7.02 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (7.02 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil				
	Solubility: ≥ 2.08 mg/mL (7.02 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	ABTL-0812 (α-Hydroxylinoleic acid) induces endoplasmic reticulum (ER) stress-mediated autophagy. ABTL-0812 is a first-in-class small molecule with anti-cancer activity ^[1] .
In Vitro	ABTL-0812 (ABTL0812; 10-100 μM; 48 hours) inhibits cell viability of squamous NSCLC H157 cells^[1]. Compared with squamous NSCLC H157 cells, human lung fibroblast cell line MRC-5 are resistant to ABTL0812 treatment^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay^[1]

	Cell Line:	Human lung fibroblast MRC5 and squamous non-small cell lung (NSCLC) H157 cells
	Concentration:	10, 30, 100 μ M
	Incubation Time:	48 hours
	Result:	Inhibited cell viability of squamous NSCLC H157 cells, not lung fibroblast cell line MRC-5.
In Vivo	ABTL-0812 (ABTL0812; 120 mg/kg; oral gavage; 5 times per week; for 33 d) induces ER stress in human lung and pancreatic xenografts^[1]. ABTL-0812 induces hallmarks of ER stress in vivo. ABTL-0812 increases ATF4 and HSPA5 expression in mice bearing MiaPaca2 and A549 xenograft, respectively^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Athymic female nude mice bearing MiaPaca2 and A549 xenograft models ^[1]
	Dosage:	120 mg/kg
	Administration:	Administered by oral gavage; 5 times per week for 33 days
	Result:	Induced ER stress in human lung and pancreatic xenografts.

REFERENCES

[1]. Muñoz-Guardiola P, et al. The anti-cancer drug ABTL0812 induces ER stress-mediated cytotoxic autophagy by increasing dihydroceramide levels in cancer cells. *Autophagy*. 2020 May 13.

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

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