SZABO SCANDIC

Part of Europa Biosite

Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

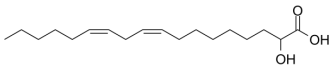
linkedin.com/company/szaboscandic

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
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (843.34 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	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 μM
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.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA