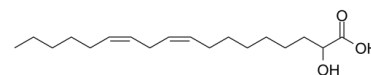


Data Sheet

Product Name:	ABTL-0812
Cat. No.:	CS-7178
CAS No.:	57818-44-7
Molecular Formula:	C ₁₈ H ₃₂ O ₃
Molecular Weight:	296.44
Target:	Autophagy
Pathway:	Autophagy
Solubility:	DMSO : 250 mg/mL (843.34 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

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 μ M; 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]. **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].

PROTOCOL (Extracted from published papers and Only for reference)

Animal Administration: In water 5% glycerol^[1]

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.

CAIndexNames:

9,12-Octadecadienoic acid, 2-hydroxy-, (9Z,12Z)-

SMILES:

CCCCC/C=C\C/C=C\C\CCCCC(O)C(O)=O

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

Tel: 610-426-3128

Fax: 888-484-5008

E-mail: sales@ChemScene.com

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