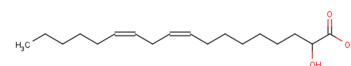


ABTL-0812

Chemical Properties

CAS No.: 57818-44-7
Formula: C₁₈H₃₂O₃
Molecular Weight: 296.44
Appearance: N/A
Storage: 0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

| | |
|----------------------------|--|
| Description | ABTL-0812 induces endoplasmic reticulum (ER) stress-mediated autophagy, and with anti-cancer activity. |
| Targets(IC ₅₀) | Others: None |
| In vitro | cell viability of squamous NSCLC H157 cells inhibited by ABTL-0812 (ABTL0812; 10-100 µM; 48 hours). Compared with squamous NSCLC H157 cells, human lung fibroblast cell line MRC-5 are resistant to ABTL0812 treatment. |
| In vivo | In human lung and pancreatic xenografts, ABTL-0812 (ABTL0812; 120 mg/kg; oral gavage; 5 times per week; for 33 d) induces ER stress. In vivo, ABTL-0812 induces hallmarks of ER stress. ABTL-0812 increases ATF4 and HSPA5 expression in mice bearing MiaPaca2 and A549 xenograft, respectively. |

Solubility Information

| | |
|------------|---|
| Solubility | < 1 mg/ml refers to the product slightly soluble or insoluble |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|----------|-----------|-----------|
| 1 mM | 3.373 mL | 16.867 mL | 33.734 mL |
| 5 mM | 0.675 mL | 3.373 mL | 6.747 mL |
| 10 mM | 0.337 mL | 1.687 mL | 3.373 mL |
| 50 mM | 0.067 mL | 0.337 mL | 0.675 mL |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

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.

Inhibitors · Natural Compounds · Compound Libraries

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