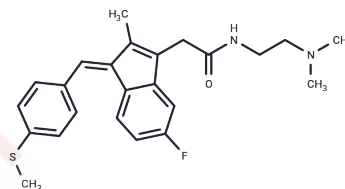


## Autophagy inducer 7

### Chemical Properties

CAS No. :	944159-20-0
Formula:	C <sub>24</sub> H <sub>27</sub> FN <sub>2</sub> O <sub>5</sub>
Molecular Weight:	410.547
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



### Biological Description

Description	Autophagyinducer 7 (Compound SSA) serves as an inducer of autophagy (Autophagy) and apoptosis (Apoptosis). It stimulates autophagy by inhibiting Akt/mTOR signaling and the expression of downstream proteins. Additionally, Autophagyinducer 7 suppresses DNA synthesis and causes G <sub>0</sub> -G <sub>1</sub> cell cycle arrest, ultimately inhibiting the growth of tumor cells.
Targets(IC <sub>50</sub> )	Apoptosis,Akt,Autophagy,DNA/RNA Synthesis,mTOR
In vitro	Autophagy inducer 7 inhibits the growth of human lung adenocarcinoma cell lines with IC <sub>50</sub> values of 1.95 μM (HOP-62), 4.72 μM (A549), and 3.05 μM (H1299) at 72 hours. At concentrations of 0-10 μM over 24 hours, it induces apoptosis in HOP-62, A549, and H1299 cells, but less effectively than Sulindac sulfide and Staurosporine. Additionally, Autophagy inducer 7 at 0-7.5 μM for 24 hours suppresses DNA synthesis in the same cell lines and raises the percentage of cells in the G <sub>0</sub> -G <sub>1</sub> phase of the cell cycle. It also induces autophagy and enhances autophagic flux in A549 cells by inhibiting Akt/mTOR/p70S6k signaling.

### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4358 mL	12.1788 mL	24.3576 mL
5 mM	0.4872 mL	2.4358 mL	4.8715 mL
10 mM	0.2436 mL	1.2179 mL	2.4358 mL
50 mM	0.0487 mL	0.2436 mL	0.4872 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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