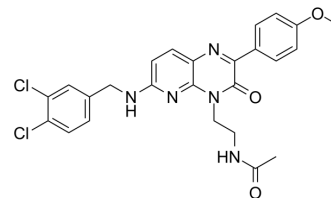


CVT-11127

Cat. No.:	HY-113638		
CAS No.:	1018674-83-3		
Molecular Formula:	C ₂₅ H ₂₃ Cl ₂ N ₃ O ₃		
Molecular Weight:	512.39		
Target:	Stearoyl-CoA Desaturase (SCD); Apoptosis		
Pathway:	Metabolic Enzyme/Protease; Apoptosis		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (48.79 mM; Need ultrasonic)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.9516 mL	9.7582 mL	19.5164 mL
	5 mM	0.3903 mL	1.9516 mL	3.9033 mL
	10 mM	0.1952 mL	0.9758 mL	1.9516 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

CVT-11127 is a potent SCD inhibitor. CVT-11127 induces apoptosis and arrests the cell cycle at the G1/S phase. CVT-11127 has the potential for the research of lung cancer^[1].

IC₅₀ & Target

SCD^[1]

In Vitro

CVT-11127 (1 μM, 48 h) shows antiproliferation activity in H460 cells^[1].
 CVT-11127 (1 μM, 48 h) decreases the the population of cells in S-phase by 75%^[1].
 CVT-11127 (1 μM, 48 h) induces apoptosis in H460 cells^[1].
 CVT-11127 (1, 2 μM) inhibitors the SCD (stearoylCoA desaturase) activity in H460 cells^[1].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.
 Cell Proliferation Assay^[1]

Cell Line: H460 cells

Concentration: 1 μM

Incubation Time:	48 h
Result:	Showed antiproliferation activity.
Cell Cycle Analysis ^[1]	
Cell Line:	H460 cells
Concentration:	1 μ M
Incubation Time:	48 h
Result:	Decreased the the population of cells in S-phase by 75%.
Apoptosis Analysis ^[1]	
Cell Line:	H460 cells
Concentration:	1 μ M
Incubation Time:	24 h
Result:	Induced apoposis H460 cells.

REFERENCES

[1]. Hess D, et al. Inhibition of stearylCoA desaturase activity blocks cell cycle progression and induces programmed cell death in lung cancer cells. PLoS One. 2010; 5(6):e11394.

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

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