

SC-III3

Chemical Properties

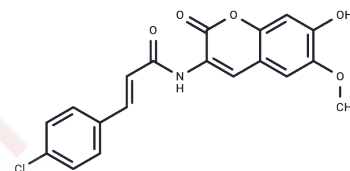
CAS No. : 1660110-65-5

Formula: C₁₉H₁₄ClNO₅

Molecular Weight: 371.77

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	SC-III3 is a novel scopoletin derivative, induces autophagy of human hepatoma HepG2 cells through AMPK/mTOR signaling pathway by acting on mitochondria. SC-III3 reduces the viability of HepG2 cells and tumor growth of HepG2 xenograft mouse model. It induces the death of HepG2 cells by a way irrelevant to apoptosis and necrosis.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6898 mL	13.4492 mL	26.8984 mL
5 mM	0.538 mL	2.6898 mL	5.3797 mL
10 mM	0.269 mL	1.3449 mL	2.6898 mL
50 mM	0.0538 mL	0.269 mL	0.538 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.

Reference

Zhao P, Dou Y, Chen L, Li L, Wei Z, Yu J, Wu X, Dai Y, Xia Y. SC-III3, a novel scopoletin derivative, induces autophagy of human hepatoma HepG2 cells through AMPK/mTOR signaling pathway by acting on mitochondria. *Fitoterapia*. 2015 Jul;104:31-40. doi: 10.1016/j.fitote.2015.05.002. Epub 2015 May 8. PubMed PMID: 25964188.

Zhao P, Chen L, Li LH, Wei ZF, Tong B, Jia YG, Kong LY, Xia YF, Dai Y. SC-III3, a novel scopoletin derivative, induces cytotoxicity in hepatocellular cancer cells through oxidative DNA damage and ataxia telangiectasia-mutated nuclear protein kinase activation. *BMC Cancer*. 2014 Dec 19;14:987. doi: 10.1186/1471-2407-14-987. PubMed PMID: 25527123; PubMed Central PMCID: PMC4320555.

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