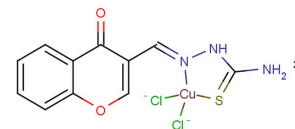


FPA-124

Chemical Properties

CAS No.:	902779-59-3
Formula:	C ₁₁ H ₉ Cl ₂ CuN ₃ O ₂ S
Molecular Weight:	381.73
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	FPA-124 interacts with both the pleckstrin homology (PH) and the kinase domains of Akt. FPA-124 induces apoptosis. FPA-124, a cell-permeable copper complex, is a selective Akt inhibitor with an IC ₅₀ of 0.1 μM.
Targets(IC ₅₀)	Others: None
In vitro	FPA-124 exhibits dose-dependent growth inhibitory effects with IC ₅₀ s of 7, 10, 34, and 55 μM in BT20, PC-3, COLO 357 and BxPC-3 cancer cell lines, respectively.
In vivo	FPA-124 exhibits PKB (Akt protein) inhibitory activities and causes NF-κB inactivation in a well-established orthotopic pancreatic tumor model using COLO 357 cells.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.62 mL	13.098 mL	26.197 mL
5 mM	0.524 mL	2.62 mL	5.239 mL
10 mM	0.262 mL	1.31 mL	2.62 mL
50 mM	0.052 mL	0.262 mL	0.524 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

- Barve V, et al. Synthesis, molecular characterization, and biological activity of novel synthetic derivatives of chromen-4-one in human cancer cells. *J Med Chem.* 2006 Jun 29;49(13):3800-8.
- Biscetti F, et al. Pioglitazone enhances collateral blood flow in ischemic hindlimb of diabetic mice through an Akt-dependent VEGF-mediated mechanism, regardless of PPARγ stimulation. *Cardiovasc Diabetol.* 2009 Sep 8;8:49.

Inhibitors · Natural Compounds · Compound Libraries

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