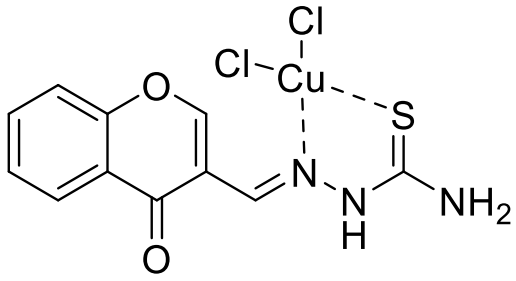
# Echelon Biosciences Inc.

## FPA-124 (Akt inhibitor)

### Catalog number: B-0101




Molecular Formula: $C_{11}H_9Cl_2CuN_3O_2S$

MW: 381.7

CAS: 902779-59-3

Alternate Names: 3-Forylchromone thiosemicarbazone, Cu(II)$Cl_2$ complex

Solubility: DMSO: 5 mg/mL

Storage and Handling: Store dry between 2-8 °C. Stock solutions should be stored frozen (-20 °C or below).

Background: FPA-124 is a cell-permeable inhibitor of Akt ($IC_{50}$ = 100 nM), binding to the PH and kinase domains. It inhibits cell proliferation in Colo357, BxPC3, BT20, and PC3 cancer cell lines with $IC_{50}$ values ranging from 7-55 nM. FPA-124 inhibited tumor growth in mice with negligible toxicity.

References: 1) V. Barve, *et al.* "Synthesis, Molecular Characterization, and Biological Activity of Novel Synthetic Derivatives of Chromen-4-one in Human Cancer Cells" *J. Med. Chem.*, 2006, *49*, 3800-3808. 2) 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" *Cardiovascular Diabetology* 2009, *8:49*, doi:10.1186/1475-2840-8-49 3) Strittmatter, F. *et al.* "Activation of protein kinase B/Akt by alpha1-adrenoceptors in the human prostate." *Life Sci.* 2012, 90(11-12), 446-53.





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