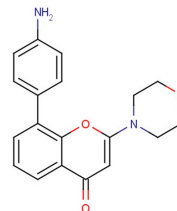


PI-828

Chemical Properties

CAS No.:	942289-87-4
Formula:	C ₁₉ H ₁₈ N ₂ O ₃
Molecular Weight:	322.36
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	PI-828 is a dual inhibitor of PI3K and casein kinase 2 (CK2). It has an IC ₅₀ s of 173 nM, 149 nM, and 1127 nM for p110α, CK2, and CK2α2 in lipid kinase assay, respectively.
Targets(IC ₅₀)	p110α: 173 nM CK2: 149 nM CK2α2: 1.127 μM
In vitro	PI-828 (0.78-3.12 μM; 48 hours) reduces caspase 3 activation. However, higher concentrations of PI-828 (6.25-12.5 μM) alone causes apoptosis. PI-828 (0.01-100 μM) exhibits a cytotoxic effect on the 4T1 breast cancer cells and 4306 ovarian cancer cells[2][3].

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	3.102 mL	15.511 mL	31.021 mL
5 mM	0.62 mL	3.102 mL	6.204 mL
10 mM	0.31 mL	1.551 mL	3.102 mL
50 mM	0.062 mL	0.31 mL	0.62 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

1. Gharbi SI, et al. Exploring the specificity of the PI3K family inhibitor LY294002. *Biochem J.* 2007 May 15;404(1):15-21.
2. Kulkarni AA, et al. Supramolecular nanoparticles that target phosphoinositide-3-kinase overcome insulin resistance and exert pronounced antitumor efficacy. *Cancer Res.* 2013 Dec 1;73(23):6987-97.
3. Zellefrow CD, et al. Identification of druggable targets for radiation mitigation using a small interfering RNA screening assay. *Radiat Res.* 2012 Sep;178(3):150-9.

Inhibitors · Natural Compounds · Compound Libraries

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