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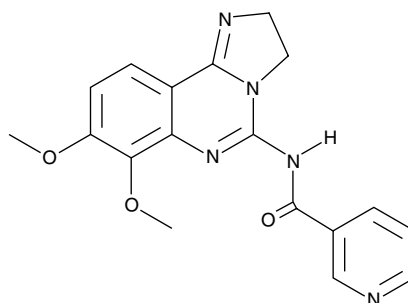
Product Information



PIK-90

Item No. 10010749

CAS Registry No.: 677338-12-4
Formal Name: N-(2,3-dihydro-7,8-dimethoxyimidazo[1,2-c]quinazolin-5-yl)-3-pyridinecarboxamide
Synonym: PIK-85
MF: C₁₈H₁₇N₅O₃
FW: 351.4
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 229, 276 nm



Laboratory Procedures

For long term storage, we suggest that PIK-90 be stored as supplied at -20°C. It should be stable for at least two years.

PIK-90 is supplied as a crystalline solid. A stock solution may be made by dissolving the PIK-90 in the solvent of choice. PIK-90 is soluble in DMSO, which should be purged with an inert gas. The solubility of PIK-90 in DMSO is approximately 0.5 mg/ml.

PIK-90 is sparingly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

PIK-90 is a potent and cell permeable phosphoinositide 3-kinase (PI3K) inhibitor (IC₅₀ = 11, 350, 18, and 58 nM for p110 subunit isoforms α, β, γ, and δ, respectively).¹ Through this action, PIK-90 reduces chemotaxis and induces apoptosis in chronic lymphocytic leukemia B cells.¹ It also blocks proliferation of glioma cells *in vitro*.² By inhibiting P110α, PIK-90 blocks insulin-stimulated phosphorylation of Akt in L1 adipocytes and L6 myotubes, preventing activation of the mTORC1 pathway.³

References

1. Niedermeier, M., Hennessy, B.T., Knight, Z.A., *et al.* Isoform-selective phosphoinositide 3'-kinase inhibitors inhibit CXCR4 signaling and overcome stromal cell-mediated drug resistance in chronic lymphocytic leukemia: A novel therapeutic approach. *Blood* **113**(22), 5549-5557 (2009).
2. Fan, Q.-W., Knight, Z.A., Goldenberg, D.D., *et al.* A dual PI3 kinase/mTOR inhibitor reveals emergent efficacy in glioma. *Cancer Cell* **9**, 341-349 (2006).
3. Knight, Z.A., Gonzalez, B., Feldman, M.E., *et al.* A pharmacological map of the PI3-K family defines a role for p110α in insulin signaling. *Cell* **125**, 733-747 (2006).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/10010749

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WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY; NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

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