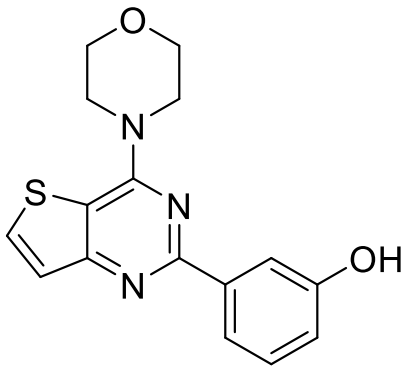
PI 3-Kinase α Inhibitor 2

Catalog number: B-0304



Molecular Formula: $C_{16}H_{15}N_3O_2S$

MW: 313.4

CAS: 371943-05-4

Alternate Name: 3-(4-Morpholinothieno[3,2-d]pyrimidin-2-yl)phenol

Solubility: water: insoluble, DMSO: 10 mg/mL

Storage and Handling: Store dry at 4 °C. Stock solutions should be stored frozen (-20°C).

Background: 3-(4-Morpholinothieno[3,2-d]pyrimidin-2-yl)phenol is a selective inhibitor for the α-isoform of PI 3-Kinase (IC_{50}: PI 3-K α = 2 nM, PI 3-Kβ = 16 nM, PI 3-Kγ = 660 nM, PI3KC2β = 220 nM)). It showed >1000-fold selectivity vs. protein kinases such as PKA, KDR, PKCa, and E/CDK2 (IC_{50} = 91, 3.4, 466, 288 μM). It inhibited proliferation of A375 melanoma cells at 580 nM.

References: Compound 15e in M. Hayakawa, *et al.* "Synthesis and biological evaluation of 4-morpholino-2-phenyl quinazolines and related derivatives as novel PI3 kinase p110α inhibitors" *Bioorg. Med. Chem.* 2006, *14*, 6847-6858.

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