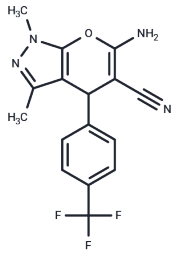
Data Sheet (Cat.No.T2267)

TargetMol

BQU57

Chemical Properties



CAS No. : 1637739-82-2

Formula: C16H13F3N4O

Molecular Weight: 334.3

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	BQU57 selectively inhibits Ral over Ras or Rho and suppresses xenograft tumor growth.
Targets(IC50)	GTPase,Ras
In vitro	BQU57 inhibited RalA and RalB activation in H2122 and H358 cell lines, resulting in cell growth inhibition.
In vivo	BQU57 inhibited RalA and RalB activation in H2122 and H358 cell lines, resulting in cell growth inhibition.
Kinase Assay	HDAC Enzyme Assay: The commercially availablae human recombinant enzyme and fluorogenic HDAC assay kits have used to measure percent inhibition and IC50 values of three HDAC isozymes (HDAC2, HDAC4, HDAC6). Briefly, the inhibitor is added sequentially to a black, flat-bottom 96-well microtiter plate, and the reaction mixture is incubated for 30 min at 37°C. The potent HDAC inhibitor trichostatin A (included in the assay kit) is added to the bifunctional HDAC assay developer at a final reaction concentration of 1 μM to stop deacetylation and initiate the release of the fluorophore. The reaction mixture is further incubated at room temperature for 15 min. Fluorescence is measured on a Spectra Max Gemini XPS using an excitation wavelength of 360 nm and a detection wavelength of 460 nm.
Cell Research	Growth inhibition on human lung cancer cells by the compounds are measured under anchorage-independent conditions in soft agar. Cells are seeded into 6-well plates (coated with a base layer made of 2.0 mL of 1% low-melting-point agarose) at 15,000 cells per well in 3.0 mL of 0.4% low-melting-point agarose containing various concentration of drug. Two to four weeks (depending on cell line) after incubation, cells are stained with 1.0 mg/mL Nitro Blue Tetrazolium and colonies are counted under a microscope. The IC50 values are defined as the concentration of drug that resulted in 50% reduction in colony number compared to DMSO treated control. After 48 hr, cells are subjected to the soft agar colony formation assay. (Only for Reference)

Solubility Information

Solubility	Ethanol: 16 mg/mL (47.86 mM),Sonication is recommended. DMSO: 40 mg/mL (119.65 mM),Sonication is recommended. H2O: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.98 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9913 mL	14.9566 mL	29.9133 mL
5 mM	0.5983 mL	2.9913 mL	5.9827 mL
10 mM	0.2991 mL	1.4957 mL	2.9913 mL
50 mM	0.0598 mL	0.2991 mL	0.5983 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Yan C, et al. Nature. 2014, 515(7527), 443-447.