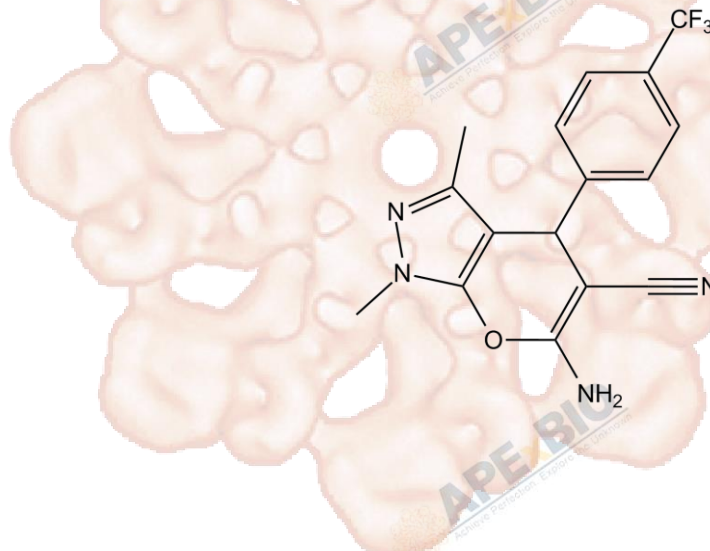


Product Data Sheet

BQU57

Cat. No.:	A9503
CAS No.:	1637739-82-2
Formula:	C16H13F3N4O
M.Wt:	334.30
Synonyms:	
Target:	Cancer Biology
Pathway:	Ras-like GTPases
Storage:	Store at -20°C



Solvent & Solubility

insoluble in H₂O; ≥16.55 mg/mL in DMSO; ≥9.2 mg/mL in EtOH

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	Concentration			
	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

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary

Derivative of RBC8

IC₅₀ & Target

In Vitro

Cell Viability Assay

Cell Line:	Human lung cancer cell lines (H2122, H358)
Preparation method:	Soluble in DMSO > 10 mM. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
Reacting conditions:	2-4 weeks at 37oC

	Applications:	BQU57 acts specifically through the GDP-bound form of Ral proteins. Ral-dependent lines H2122 and H358 are sensitive to treatment with BQU57. BQU57 treatment exhibits no further inhibition of colony formation after RAL knockdown.
In Vivo	Animal experiment	
	Animal models:	H2122 tumor xenografts (median size, 250 mm ³)
	Dosage form:	Single intraperitoneal injection of BQU57 (10, 20 and 50 mg per kg body weight)
	Applications:	BQU57 shows a dose-dependent (10, 20 and 50 mg per kg body weight per day) growth inhibition in the mice. Both RalA and RalB were blocked by BQU57.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

See more customer validations on www.apexbt.com.

References

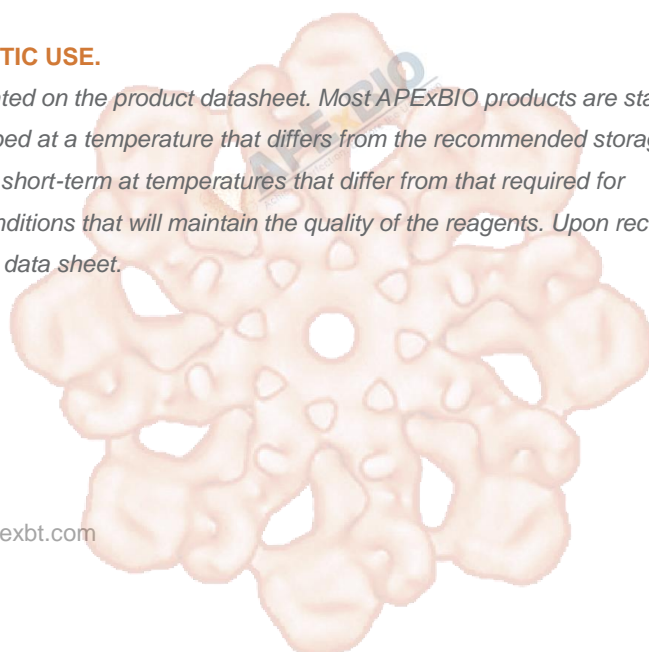
1. Yan C, Liu D, Li L et al. Discovery and characterization of small molecules that target the GTPase Ral. Nature. 2014 Nov 20;515(7527):443-7.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APEX BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.



APEX BIO Technology

www.apexbt.com

7505 Fannin street, Suite 410, Houston, TX 77054.

Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com

