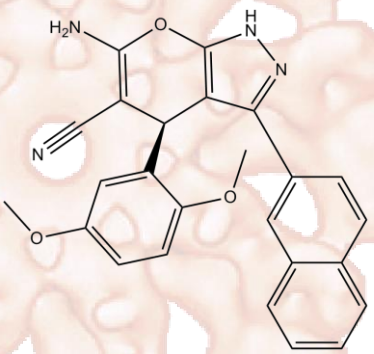
Product Data Sheet

RBC8



Cat. No.:	B4884
CAS No.:	361185-42-4
Formula:	C25H20N4O3
M.Wt:	424.45
Synonyms:	
Target:	Cancer Biology
Pathway:	Ras-like GTPases
Storage:	Store at -20°C

Solvent & Solubility

In Vitro

Soluble in DMSO

Preparing Stock Solutions

Mass / Solvent / Concentration	1mg	5mg	10mg
1 mM	2.3560 mL	11.7800 mL	23.5599 mL
5 mM	0.4712 mL	2.3560 mL	4.7120 mL
10 mM	0.2356 mL	1.1780 mL	2.3560 mL

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

Biological Activity

Shortsummary	Ral GTPase inhibitor
IC_{50} & Target	

In Vitro

Cell Viability Assay

Cell Line:	J82 cells
Preparation method:	The solubility of this compound in DMSO is > 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:	0–15 μM, 1h
Applications:	In J82 cells overexpressing FLAG-RalA, treatment with RBC8 for 1h reduced

		the activation of RalA. RBC8 dose-dependently inhibited cell spreading in WT MEF cells. RBC8 treatment inhibited colony formation in H2122 and H358 cell lines with the IC50 of 3.5 μM and 3.4 μM, respectively.
In Vivo	**Animal experiment**	
	Animal models:	H2122 and H358 human lung cancer xenograft mice models
	Dosage form:	Intraperitoneal injection, 50 mg/kg/d for 21 days
	Applications:	In mice bearing H358 and H2122 xenografts, RBC8 (50 mg/kg i.p.) inhibited tumor growth via specific inhibition of RalA and RalB.
	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 Ral GTPase. Nature, 2014, 515(7527): 443-447.

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 APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm 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.