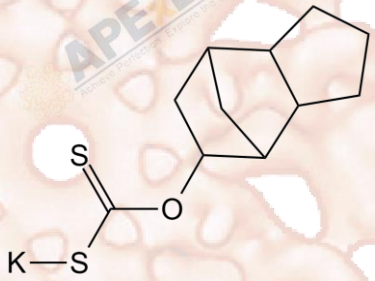
Product Data Sheet

D609



Cat. No.:	A3343
CAS No.:	83373-60-8
Formula:	C11H15KOS2
M.Wt:	266.47
Synonyms:	D-609 potassium, D 609, D-609
Target:	Apoptosis
Pathway:	PC-PLC
Storage:	Store at -20°C

Solvent & Solubility

In Vitro

⩾12.7 mg/mL in H2O; ⩾24.5 mg/mL in EtOH with gentle warming and ultrasonic; ⩾35.33 mg/mL in DMSO with gentle warming

Preparing Stock Solutions

Mass / Solvent / Concentration	1mg	5mg	10mg
1 mM	3.7528 mL	18.7638 mL	37.5277 mL
5 mM	0.7506 mL	3.7528 mL	7.5055 mL
10 mM	0.3753 mL	1.8764 mL	3.7528 mL

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

Biological Activity

Shortsummary	PC-PLC inhibitor
IC_{50} & Target	94 μM (PC-PLC)

In Vitro

Cell Viability Assay

Cell Line:	HER2-overexpressing SKBr3 cells and various cancer cells
Preparation method:	The solubility of this compound in DMSO is > 12.7 mg/mL. 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:	50 μg/mL
	Applications:	D609 inhibited PC-PLC, which enhanced HER2 internalization and lysosomal degradation, inducing down-regulation of HER2 expression on the membrane. Moreover, D609-induced PC-PLC inhibition significantly delayed HER2 re-expression on the membrane and reduced the overall cellular contents of HER2, HER2-HER3 and HER2-EGFR heterodimers. In addition, D609 also exhibited antiproliferative effects, especially in Trastuzumab-resistant cells, via PC-PLC inhibition. In breast cancer cells, D609 at the dose of 50 μg/mL decreased the activity of PC-PLC by 3.5 folds within 1hr.
In Vivo	**Animal experiment**	
	Applications:	

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. Paris L, Cecchetti S, Spadaro F, Abalsamo L, Lugini L, Pisanu ME, Iorio E, Natali PG, Ramoni C, Podo F. Inhibition of phosphatidylcholine-specific phospholipase C downregulates HER2 overexpression on plasma membrane of breast cancer cells. Breast Cancer Res. 2010;12(3):R27.

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.

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