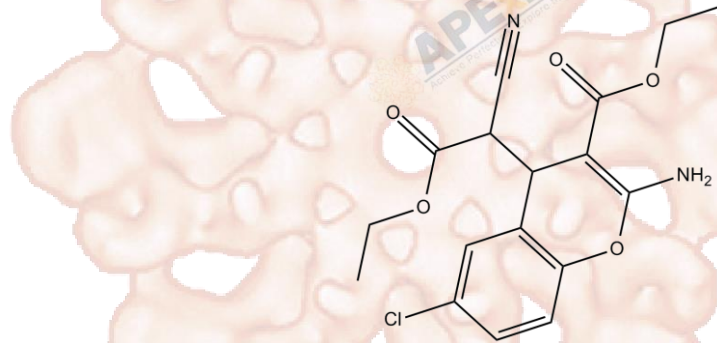


Product Data Sheet

SC 79

Cat. No.:	B5663
CAS No.:	305834-79-1
Formula:	C17H17ClN2O5
M.Wt:	364.78
Synonyms:	
Target:	PI3K/Akt/mTOR Signaling
Pathway:	Akt
Storage:	Store at -20°C



Solvent & Solubility

≥36.5 mg/mL in DMSO; insoluble in H₂O; ≥9.76 mg/mL in EtOH with gentle warming and ultrasonic

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	Concentration			
	1 mM	2.7414 mL	13.7069 mL	27.4138 mL
	5 mM	0.5483 mL	2.7414 mL	5.4828 mL
	10 mM	0.2741 mL	1.3707 mL	2.7414 mL

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

Biological Activity

Shortsummary

Akt activator

IC₅₀ & Target

In Vitro

Cell Viability Assay

Preparation method:

In Vivo

Animal experiment

Applications:

Product Citations

1. Zeng CY, Yang TT, et al. "Lentiviralvector-mediated overexpression of Klotho in the brain improves Alzheimer'sdisease-like pathology and cognitive deficits in mice." Neurobiol Aging. 2019 Feb13;78:18-28.PMID:30851437/
2. Fu X, Halim A, et al. "MT1-MMP downregulation via the PI3K/Akt signaling pathway is required for the mechanical stretching-inhibited invasion of bone-marrow-derived mesenchymal stem cells." J Cell Physiol. 2019 Jan 19.PMID:30659604
3. Zhu Y, Li Q, et al. "TLR activation inhibits the osteogenic potential of human periodontal ligament stem cells through Akt signaling in a Myd88- or TRIF-dependent manner." J Periodontol. 2018 Oct 26.PMID:30362568
4. Zhang B, Wang W, et al. "Inositol polyphosphate-4-phosphatase type II plays critical roles in the modulation of cadherin-mediated adhesion dynamics of pancreatic ductal adenocarcinomas." Cell Adh Migr. 2018 Aug 19:1-16.PMID:29952716

See more customer validations on www.apexbt.com.

References

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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