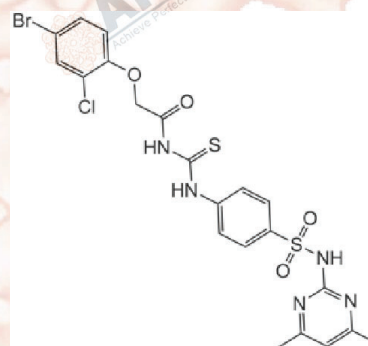


Product Data Sheet

ZCL278

Cat. No.:	A8300
CAS No.:	587841-73-4
Formula:	C ₂₁ H ₁₉ BrClN ₅ O ₄ S ₂
M.Wt:	584.89
Synonyms:	
Target:	Cell Cycle/Checkpoint
Pathway:	Cdc42
Storage:	Store at -20°C



Solvent & Solubility

≥29.25 mg/mL in DMSO; insoluble in H₂O; insoluble in EtOH

In Vitro	Preparing Stock Solutions	Mass			
		Solvent Concentration	1mg	5mg	10mg
		1 mM	1.7097 mL	8.5486 mL	17.0972 mL
		5 mM	0.3419 mL	1.7097 mL	3.4194 mL
		10 mM	0.1710 mL	0.8549 mL	1.7097 mL

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

Biological Activity

Shortsummary	Selective Cdc42 inhibitor			
IC ₅₀ & Target	11.4 μM(Kd) (Cdc42 GTPase)			
In Vitro	Cell Viability Assay			
	<table border="1"> <tr> <td>Cell Line:</td> <td>Cortical neurons</td> </tr> <tr> <td>Preparation method:</td> <td>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.</td> </tr> </table>	Cell Line:	Cortical neurons	Preparation method:
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	Reacting conditions:	50 μ M; 5 and 10 mins or 2, 4, 6, 8 and 10 mins
	Applications:	In ZCL278-treated neurons, neuronal branching was significantly suppressed over the time course. In addition, ZCL278 markedly inhibited Cdc42-mediated growth cone motility.
In Vivo	Animal experiment	
	Applications:	

Product Citations

1. Ye Y, Li SL, et al. "Exosomal miR-141-3p regulates osteoblast activity to promote the osteoblastic metastasis of prostate cancer." Oncotarget. 2017 Oct 24;8(55):94834-94849. PMID:29212270

See more customer validations on www.apexbt.com.

References

[1]. Friesland, A., et al., Small molecule targeting Cdc42-intersectin interaction disrupts Golgi organization and suppresses cell motility. Proc Natl Acad Sci U S A, 2013. 110(4): p. 1261-6.

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.

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