

Product Name: ESI-09 Revision Date: 01/10/2021

Product Data Sheet

ESI-09

Cat. No.: B4814

CAS No.: 263707-16-0

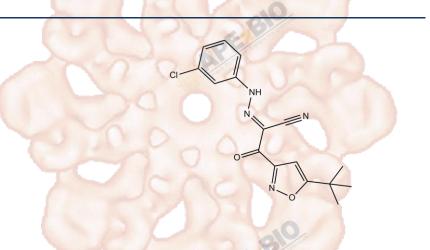
Formula: C16H15CIN4O2

M.Wt: 330.77

Synonyms:

Target: Others
Pathway: Others

Storage: Store at -20°C



Solvent & Solubility

≥33.1 mg/mL in DMSO; insoluble in H2O; ≥2.22 mg/mL in EtOH with ultrasonic

In Vitro

Preparing Stock Solutions	Solvent Concentration	1mg	5mg	10mg
	1 mM	3.0232 mL	15.1162 mL	30.2325 mL
	5 mM	0.6046 mL	3.0232 mL	6.0465 mL
	10 mM	0.3023 mL	1.5116 mL	3.0232 mL

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

Biological Activity

Shortsummary	EPAC inhibitor, specific			
IC ₅₀ & Target				
In Vitro	Cell Viability Assay			
	Cell Line:	AsPC-1 and PANC-1 pancreatic cancer cells, INS-1 cells		
	Preparation method: The solubility of this compound in DMSO is > 16.6 mg/mL. Gene			
		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:	10 μM, 5 minutes		

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Applications:		ESI-09 (1 μM, 10 μM, 5 minutes) inhibited EPAC-mediated Akt phosphorylation	
		in AsPC-1 pancreatic cancer cells. ESI-09 (5 μM, 10 μM) inhibited	
		EPAC2-mediated insulin secretion in INS-1 cells. ESI-09 (5 μ M, 10 μ M)	
		inhibited pancreatic cancer migration. In both AcPC-1 and PANC-1 cells,	
		pretreatment with ESI-09 (15 minutes) decreased 007-AM-induced cell	
	210	adhesion dose-dependently. ESI-09 significantly reduced intracellular and total	
	SE Live	bacterial counts in human umbilical vein endothelial cells.	
	Animal experiment		
In Vivo	Animal models:	C57BL/6 Epac1 null mice	
	Dosage form:	Intraperitoneal injection, 10 mg/kg/d, 5 d	
	Applications:	Treatment with ESI-09 (10 mg/kg/d, i.p.) for 5 days protected WT C57BL/6 mice	
		from fatal SFG rickettsiosis via pharmacological inhibition of EPAC1.	
	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	
	<u> </u>	system error and it is normal.	

Product Citations

See more customer validations on www.apexbt.com.

References

- [1]. Almahariq M, Tsalkova T, Mei F C, et al. A novel EPAC-specific inhibitor suppresses pancreatic cancer cell migration and invasion[J]. Molecular pharmacology, 2013, 83(1): 122-128.
- [2]. Gong B, Shelite T, Mei F C, et al. Exchange protein directly activated by cAMP plays a critical role in bacterial invasion during fatal rickettsioses[J]. Proceedings of the National Academy of Sciences, 2013, 110(48): 19615-19620.

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.

APExBIO Technology

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