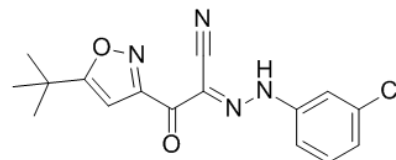


Product Name : ESI-09
Cat. No. : PC-45049
CAS No. : 263707-16-0
Molecular Formula : C₁₆H₁₅ClN₄O₂
Molecular Weight : 330.7689
Target : Other Targets
Solubility : DMSO: ≥ 47 mg/mL



Biological Activity

ESI-09 is a specific, noncyclic nucleotide **EPAC** antagonist (IC₅₀=9 μM) with no effect towards PKA.

ESI-09 specifically blocks intracellular EPAC-mediated Rap1 activation and Akt phosphorylation, as well as EPAC-mediated insulin secretion in pancreatic β cells.

ESI-09 inhibits cAMP-mediated EPAC2 GEF activity and cAMP-mediated EPAC1 GEF activity with IC₅₀ of 1.4 and 3.2 μM, respectively.

ESI-09 inhibits pancreatic cancer cell migration and invasion.

References

Almahariq M, et al. *Mol Pharmacol*. 2013 Jan;83(1):122-8.

Singhmar P, et al. *Proc Natl Acad Sci U S A*. 2016 Mar 15;113(11):3036-41.

Wang H, et al. *Sci Rep*. 2016 Nov 10;6:36552.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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