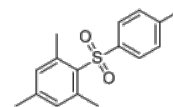


Product Name : ESI-05
Cat. No. : PC-63109
CAS No. : 5184-64-5
Molecular Formula : C₁₆H₁₈O₂S
Molecular Weight : 274.38
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

ESI-05 is a potent EAPC2-specific antagonist that inhibits cAMP-mediated **EPAC2** GEF activity with apparent IC₅₀ of 0.43 uM.

ESI-05 inhibits Rap1 activation mediated by EAPC2, but not EPAC1.

ESI-05 competes with 8-NBD-cAMP binding with an apparent IC₅₀ of 0.4 uM, does not significantly alter type I and II PKA holoenzyme activation in the presence and absence of 100 uM cAMP.

ESI-05 is a valuable tools for dissecting the isoform-specific functions of EPAC proteins.

References

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Tsalkova T, et al. *Proc Natl Acad Sci U S A*. 2012 Nov 6;109(45):18613-8.

Mediero A, et al. *FASEB J*. 2014 Nov;28(11):4901-13.

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

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