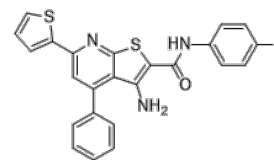


Product Name : AM-001
Cat. No. : PC-23228
CAS No. : 340817-81-4
Molecular Formula : C₂₄H₁₆FN₃OS₂
Molecular Weight : 445.53
Target : Other Targets
Solubility : 10 mM in DMSO



CAS: 340817-81-4

Biological Activity

AM-001 is a potent, selective and allosteric inhibitor of exchange proteins directly activated by cAMP 1 (**EPAC1**), inhibits Sp-8-CPT-induced Epac1 (EC₅₀=47.8 uM) but not Epac2 activity.

AM-001 shows .no antagonist effect on Epac2 or protein kinase A activity.

AM-001 prevents the activation of the Epac1 downstream effector **Rap1** in cultured cells, in response to the Epac1 preferential agonist, 8-CPT-AM.

AM-001 reduces infarct size after mouse myocardial ischaemia/reperfusion injury. attenuates cardiac hypertrophy, inflammation and fibrosis, and improves cardiac function during chronic β-adrenergic receptor activation with isoprenaline (ISO) in mice.

References

Bufano M, et al. *J Comput Aided Mol Des.* 2020 Nov;34(11):1171-1179.

Laudette M, et al. *Cardiovasc Res.* 2019 Oct 1;115(12):1766-1777.

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

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