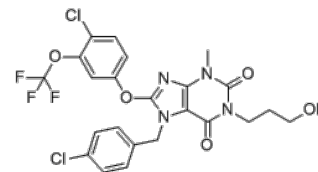


Product Name : AM237
Cat. No. : PC-72123
CAS No. : 1628289-29-1
Molecular Formula : C₂₃H₁₉Cl₂F₃N₄O₅
Molecular Weight : 559.323
Target : TRP Channel
Solubility : 10 mM in DMSO



Biological Activity

AM237 is a selective **TRPC5** channel activator that potently activated homomeric TRPC5:C5 channels (EC₅₀=15–20 nM in Ca²⁺i assays).

AM237 did not activate TRPC4:C4, TRPC4-C1, TRPC5-C1, TRPC1:C5, and TRPC1:C4 channels, or native TRPC1:C4 channels in A498 cells, but potently inhibited EA-dependent activation of these channels with IC₅₀ values ranging from 0.9 to 7 nM. AM237 (300 nM) did not activate or inhibit TRPC3, TRPC6, TRPV4, or TRPM2 channels.

AM237 potentiated TRPC5:C5 channels activation by sphingosine-1-phosphate but suppressed activation evoked by (–)-englerin A (EA).

AM237 concentration-dependently suppressed further activation of Ca²⁺ influx mediated by EA with IC₅₀ of 13 nM, potentiated TRPC5:C5 activation by S1P.

Pico145 is a competitive antagonist of AM237-mediated TRPC5:C5 activation.

References

Aisling Minard, et al. *Br J Pharmacol*. 2019 Oct;176(20):3924-3938.

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

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