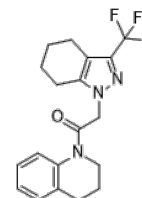


Product Name : VU041
Cat. No. : PC-26449
CAS No. : 332943-64-3
Molecular Formula : C₁₉H₂₀F₃N₃O
Molecular Weight : 363.38
Target : Parasite
Solubility : 10 mM in DMSO



Biological Activity

VU041 is a selective inhibitor of mosquito *Anopheles* (An.) *gambiae* and *Aedes* (Ae.) *aegypti* inward rectifier potassium (Kir) channels with IC₅₀ of 496 nM for AnKir1.

VU041 preferentially inhibited AeKir1 over AeKir2B in two-electrode voltage clamp experiments in *Xenopus* oocytes.

VU041 does not inhibit mammalian Kir1.1, Kir4.1, Kir6.2/SUR1, and Kir7.1 with IC₅₀ of <30 μM.

VU041 is equally toxic to insecticide-susceptible and -resistant strains of mosquitoes.

VU041 inhibits renal excretory function in mosquitoes, overcomes insecticide-resistance.

References

Swale DR, et al. *Sci Rep.* 2016 Nov 16;6:36954.

Rusconi Trigueros R, et al. *Insects.* 2018 Nov 15;9(4):163.

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

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