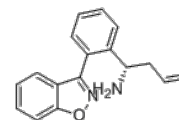


Product Name : Org 34167
Cat. No. : PC-20860
CAS No. : 198968-25-1
Molecular Formula : C₁₇H₁₆N₂O
Molecular Weight : 264.33
Target : HCN Channel
Solubility : 10 mM in DMSO



CAS: 198968-25-1

Biological Activity

Org 34167 is a broad-spectrum inhibitor of **HCN channels** with IC₅₀ of 23.4, 8.2 and 9.2 μM for HCN1, HCN2 and HCN4 channels, respectively, slowing activation and causing a hyperpolarising shift in voltage-dependence of activation. Org 34,167 (30 μM) significantly reduced I_h-mediated sag in layer V mPFC pyramidal neurons in female BALB/c mice. Org 34167 (0.5 mg/kg) reduced marble burying and increased the time spent mobile in the Porsolt swim and tail suspension tests in both male and female BALB/c mice. Org 34,167 is effective at reducing depressive behaviours in mouse behavioural assays.

References

Paulo Pinares-Garcia, et al. *Front Pharmacol.* 2023 May 10;14:1159527.
Samotaeva IS, et al. *Neuroscience.* 2013 Jan 29;230:50-5.

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

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