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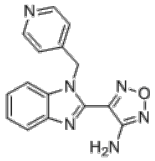
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	C101248
Cat. No.	:	PC-49461
CAS No.	:	361368-24-3
Molecular Formula	:	$C_{15}H_{12}N_6O$
Molecular Weight	:	292.302
Target	:	Potassium Channel
Solubility	:	10 mM in DMSO



Biological Activity

C101248 is the first selective small-molecule inhibitor of tandem pore domain halothane-inhibited K+ channel 1 (**THIK-1**) with IC50 of 50 nM for both mouse and human THIK-1.
C101248 is selective for THIK-1 and is inactive against K2P family members TREK-1 and TWIK-2, and Kv2.1.
C101248 potently blocked both tonic and ATP-evoked THIK-1 K+ currents in whole-cell patch-clamp recordings of microglia from mouse hippocampal slices.
C101248 had no effect on other constitutively active resting conductance in slices from THIK-1-depleted mice.
C101248 attenuated the NLRP3-dependent release of IL-1β from microglia.

References

Bernardino Ossola, et al. ***Neuropharmacology.*** 2022 Nov 11;109330

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