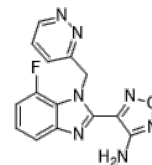


Product Name : CVN293
Cat. No. : PC-22344
CAS No. : 2815296-08-1
Molecular Formula : C₁₄H₁₀FN₇O
Molecular Weight : 311.28
Target : Potassium Channel
Solubility : 10 mM in DMSO



CAS: 2815296-08-1

Biological Activity

CVN293 (CVN-293) is a potent, selective and brain permeable potassium (K⁺) ion channel **KCNK13 (THIK-1, K2P13.1)** inhibitor with IC₅₀ of 41 nM and 28 nM for human and mouse KCNK13, respectively.

CVN293 demonstrates minimal inhibition for most closely related channels KCNK2 and KCNK6 at 10 μM.

CVN293 blocked the release of IL-1β from microglia in a concentration-dependent manner, with a potency of 24 nM.

CVN293 (1 μM) attenuated the LPS/ATP-induced release of IL-1β in mouse cultured hippocampal slices.

CVN293 potently inhibits the NLRP3-inflammasome mediated production of the proinflammatory cytokine IL-1β in microglia.

References

Bürli RW, et al. *ACS Med Chem Lett.* 2024 Apr 5;15(5):646-652.

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

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