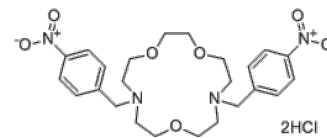


Product Name : VU590 dihydrochloride
Cat. No. : PC-60570
CAS No. : 1783987-83-6
Molecular Formula : C₂₄H₃₂N₄O_{7.2}HCl
Molecular Weight : 561.46
Target : Potassium Channel
Solubility : 10 mM in DMSO



Biological Activity

VU590 is the first small-molecule inhibitor of renal outer medullary potassium channel (**ROMK**, Kir1.1) and Kir7.1 with IC₅₀ of 294 nM for ROMK.

VU590 also inhibits inwardly rectifying K⁺ channel Kir7.1 (IC₅₀=5.6 μM), but has no activity for Kir2.1 or Kir4.1.

VU590 induces profound, long-lasting contractions in mouse and human myometrium.

References

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Bhave G, et al. *Mol Pharmacol*. 2011 Jan;79(1):42-50.

McCloskey C, et al. *EMBO Mol Med*. 2014 Sep;6(9):1161-74.

Kharade SV, et al. *Mol Pharmacol*. 2017 Sep;92(3):338-346.

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

E-mail: tech@probechem.com