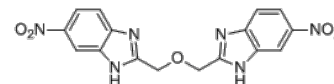


Product Name : VU591
Cat. No. : PC-60571
CAS No. : 1222810-74-3
Molecular Formula : C₁₆H₁₂N₆O₅
Molecular Weight : 368.309
Target : Potassium Channel
Solubility : 10 mM in DMSO



Biological Activity

VU591 is a potent, selective renal outer medullary potassium channel (**ROMK**, Kir1.1) inhibitor with IC₅₀ of 0.24 μM in T1+ flux assays.

VU591 has no effect on Kir7.1 at 10 μM, does not inhibit Kir2.1, Kir2.3 and Kir4.1, 150-fold selectivity over Kir6.2/SUR1. VU591 blocks the intracellular pore of the channel and is a useful probe to explore the viability of ROMK as a diuretic target.

References

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

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

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