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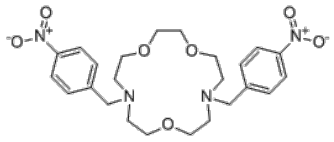
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	VU590
Cat. No.	:	PC-60569
CAS No.	:	313505-85-0
Molecular Formula	:	$C_{24}H_{32}N_4O_7$
Molecular Weight	:	488.541
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 uM), but has no activity for Kir2.1 or Kir4.1.
VU590 induces profound, long-lasting contractions in mouse and human myometrium.

References

Lewis LM, et al. ***Mol Pharmacol.*** 2009 Nov;76(5):1094-103.

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.

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