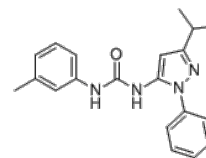


Product Name : VU0468554
Cat. No. : PC-72820
CAS No. : 1448705-21-2
Molecular Formula : C₂₀H₂₂N₄O
Molecular Weight : 334.423
Target : Potassium Channel
Solubility : 10 mM in DMSO (3.34 mg/mL)



Biological Activity

VU0468554 (VU 0468554) is a potent, selective inhibitor of **GIRK channel** with IC₅₀ of 0.85 and 2.6 μ M for GIRK1/GIRK4 and GIRK1/GIRK2 in cellular assays.

VU0468554 more effectively inhibits the cardiac GIRK channel than the neuronal GIRK channel, inhibits G β γ -activated GIRK channels in noncompetitive and potentially uncompetitive fashion.

VU0468554 competitively inhibits GIRK-channel activation by ML297, a GIRK-channel activator.

In the isolated heart model, VU0468554 partially reversed carbachol-induced bradycardia in hearts from wild-type mice but not Girk4^{-/-} mice.

References

Allison Anderson, et al. *Mol Pharmacol*. 2021 Dec;100(6):540-547.

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

E-mail: tech@probechem.com