

## **Data Sheet**

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 Product Name
 :
 VU0468554

 Cat. No.
 :
 PC-72820

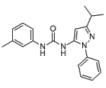
 CAS No.
 :
 1448705-21-2

 Molecular Formula
 :
 C<sub>20</sub>H<sub>22</sub>N<sub>4</sub>O

 Molecular Weight
 :
 334.423

**Target** : Potassium Channel

**Solubility** : 10 mM in DMSO (3.34 mg/mL)



## **Biological Activity**

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

VU0468554 more effectively inhibits the cardiac GIRK channel than the neuronal GIRK channel, inhibits G $\beta\gamma$ -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!

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