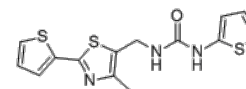


**Product Name** : VU0542270  
**Cat. No.** : PC-21733  
**CAS No.** : 1396814-79-1  
**Molecular Formula** : C<sub>14</sub>H<sub>13</sub>N<sub>3</sub>OS<sub>3</sub>  
**Molecular Weight** : 335.46  
**Target** : Potassium Channel  
**Solubility** : 10 mM in DMSO



CAS: 1396814-79-1

## Biological Activity

VU0542270 is the first selective inhibitor of vascular **Kir6.1/SUR2B** KATP channel with IC<sub>50</sub> of 129 nM, >300-fold selective over other members of the Kir channel family.

VU0542270 (3 μM) inhibits both Kir6.1- or Kir6.2-containing channels in complex with either SUR2A or SUR2B, but not channels containing SUR1.

VU0542270 shows substantially blunted vasoconstrictive effects, induces ductus arteriosus (DA) constriction in a dose-dependent manner in on isolated mouse DA vessels.

## References

Li K, et al. *Mol Pharmacol*. 2024 Feb 1;MOLPHARM-AR-2023-000783.

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

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