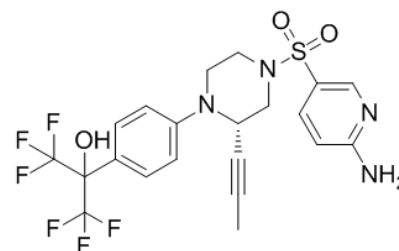


**Product Name** : AMG-3969  
**Cat. No.** : PC-43024  
**CAS No.** : 1361224-53-4  
**Molecular Formula** : C<sub>21</sub>H<sub>20</sub>F<sub>6</sub>N<sub>4</sub>O<sub>3</sub>S  
**Molecular Weight** : 522.4639  
**Target** : Glucokinase  
**Solubility** : 10 mM in DMSO



## Biological Activity

AMG-3969 is a potent, metabolically stable Glucokinase (GK)-GKRP (GK regulatory protein) disruptor with IC<sub>50</sub> of 4 nM, does not block the GK binding site directly; exhibits robust glucose lowering in diabetic mouse models, AMG-3969 is highly effective in promoting carbohydrate substrate use, demonstrates a robust pharmacodynamic response (GK translocation, mGK/GK translocation EC<sub>50</sub>=0.2 μM) as well as statistically significant dose-dependent reductions in fed blood glucose levels.

## References

- Lloyd DJ, et al. Nature. 2013 Dec 19;504(7480):437-40.  
St Jean DJ Jr, et al. J Med Chem. 2014 Jan 23;57(2):325-38.  
Nishimura N, et al. J Med Chem. 2014 Apr 10;57(7):3094-116.

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

E-mail: tech@probechem.com