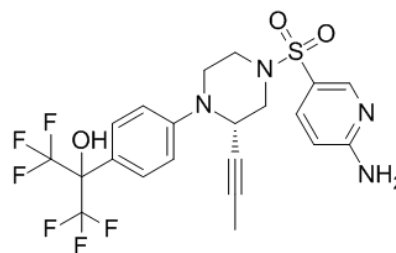


Product Name : AMG-3969
Cat. No. : PC-43024
CAS No. : 1361224-53-4
Molecular Formula : C₂₁H₂₀F₆N₄O₃S
Molecular Weight : 522.4639
Target : Glucokinase
Solubility : 10 mM in DMSO



Biological Activity

AMG-3969 is a potent, metabolically stable Glucokinase (GK)-**GKRP** (GK regulatory protein) disruptor with IC₅₀ of 4 nM, does not block the GK binding site directly.

AMG-3969 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, mGKGK translocation EC₅₀=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