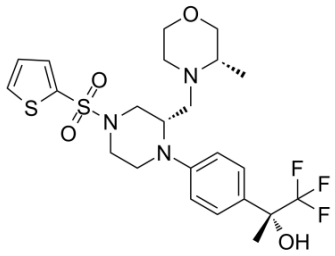
AMG-1694

Cat. No.:	HY-12614
CAS No.:	1361217-07-3
Molecular Formula:	$C_{23}H_{30}F_3N_3O_4S_2$
Molecular Weight:	533.63
Target:	Glucokinase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the COA.



BIOLOGICAL ACTIVITY

Description	AMG-1694 is a potent **glucokinase–glucokinase regulatory protein (GK-GKRP)** disruptors and promotes the dissociation of the GK-GKRP complex with an **IC_{50}** of 7 nM, indirectly increasing GK enzymatic activity. AMG-1694 potently reverses the inhibitory effect of GKRP on GK activity and promotes GK translocation. AMG-1694 normalizes blood glucose levels in several rodent models of diabetes and lowes blood glucose restricted to diabetic and not normoglycaemic animals[1].
IC_{50} & Target	IC50: 7 nM (GK-GKRP)[1]
In Vitro	AMG-1694 is highly effective in restoring the enzymatic activity of GK with an EC_{50} of 0.020 μM in the presence of GKRP[1].

REFERENCES

[1]. Lloyd DJ, et al. Antidiabetic effects of glucokinase regulatory protein small-molecule disruptors. Nature. 2013 Dec 19;504(7480):437-40.

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