Product Data Sheet

AMG-1694

 $\begin{tabular}{llll} \textbf{Cat. No.:} & HY-12614 \\ \begin{tabular}{llll} \textbf{CAS No.:} & 1361217-07-3 \\ \begin{tabular}{llll} \textbf{Molecular Formula:} & $C_{23}H_{30}F_3N_3O_4S_2$ \\ \end{tabular} \label{eq:cat.No.:}$

Molecular Weight: 533.63

Target: Glucokinase

Pathway: Metabolic Enzyme/Protease

Storage: Please store the product under the recommended conditions in the Certificate of

Analysis.

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 μ M in the presence of GKRP $^{[1]}$. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

Caution: Product has not been fully validated for medical applications. For research use only.

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