

Data Sheet

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Global Supplier of Chemical Probes, Inhibitors & Agonists.

 Product Name
 : STF-1084

 Cat. No.
 : PC-72236

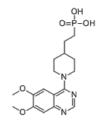
 CAS No.
 : 2298390-71-1

 Molecular Formula
 : C₁₇H₂₄N₃O₅P

 Molecular Weight
 : 381.369

 Target
 : Other Targets

 Solubility
 : 10 mM in DMSO



Biological Activity

STF-1084 (STF1084) is a potent, cell impermeable, specific, stable, and non-toxic **ENPP1** inhibitor with Ki,app of 110 nM (in vitro 32P-cGAMP TLC assay), and cellular IC50 of 340 nM.

STF-1084 has low activity towards the closely related ectonucleotidases alkaline phosphatase (Ki,app>100 μ M) and ENPP2 (Ki,app=5.5 μ M), as well as against a panel of 468 kinases.

STF-1084 (10 uM) could completely block extracellular cGAMP degradation in ENPP1 overexpressing 293T cGAS cells, without effect on intracellular cGAMP.

STF-1084 rescued extracellular cGAMP levels in the media and induction of IFNB1 expression in CD14+ cells, wothout effect on cytokine production when cGAMP was electroporated into primary human PBMCs.

References

Jacqueline A Carozza, et al. *Nat Cancer*. 2020 Feb;1(2):184-196.

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

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