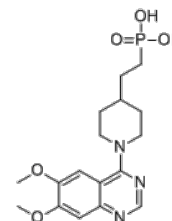


**Product Name** : STF-1084  
**Cat. No.** : PC-72236  
**CAS No.** : 2298390-71-1  
**Molecular Formula** : C<sub>17</sub>H<sub>24</sub>N<sub>3</sub>O<sub>5</sub>P  
**Molecular Weight** : 381.369  
**Target** : Other Targets  
**Solubility** : 10 mM in DMSO



## Biological Activity

STF-1084 (STF1084) is a potent, cell impermeable, specific, stable, and non-toxic **ENPP1** inhibitor with  $K_{i,app}$  of 110 nM (in vitro 32P-cGAMP TLC assay), and cellular IC<sub>50</sub> of 340 nM.

STF-1084 has low activity towards the closely related ectonucleotidases alkaline phosphatase ( $K_{i,app}$ >100 μM) and ENPP2 ( $K_{i,app}$ =5.5 μM), as well as against a panel of 468 kinases.

STF-1084 (10 μM) 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<sup>+</sup> cells, without 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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