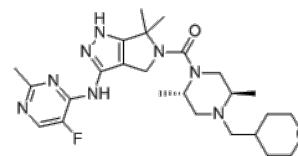


Product Name : PKC α / β inhibitor Cmpd 1
Cat. No. : PC-63224
CAS No. : 1046787-18-1
Molecular Formula : C₂₅H₃₇FN₈O₂
Molecular Weight : 500.623
Target : PKC
Solubility : 10 mM in DMSO



1. Wang J, et al. *Sci Rep.* 2023 Oct 7;13(1):16919.
2. Patent WO2021113766 (Cmpd A).

Biological Activity

PKC α / β inhibitor Cmpd 1 is a potent and selective inhibitor of Protein Kinase C (PKC) family members **PKC α** and **PKC β** with IC₅₀ of 2 nM and 11 nM, respectively.

PKC α / β inhibitor Cmpd 1 shows moderate activity against PKC θ (IC₅₀ 28 nM) and PKC γ (IC₅₀ 96 nM), >40-fold selectivity over other PKC family members.

PKC α / β inhibitor Cmpd 1 inhibits production of IL-8 in response to the DAG mimic and PKC activator phorbol 12-myristate 13-acetate (PMA) with IC₅₀ of 26 nM.

PKC α / β inhibitor Cmpd 1 inhibits PKC in vitro in PKC activity assays using glomerular source material.

PKC α / β inhibitor Cmpd 1 (100 mpk/day) decreases food consumption and causes weight loss in ZSF1 obese animals.

References

