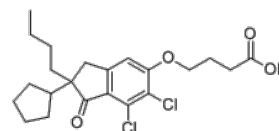


Product Name : SN-401
Cat. No. : PC-72941
CAS No. : 82749-70-0
Molecular Formula : C₂₂H₂₈Cl₂O₄
Molecular Weight : 427.362
Target : Other Targets
Solubility :



Biological Activity

SN-401 (DCPIB) is a SWELL1 channel inhibitor that binds the SWELL1-LRRC8 channel complexes (IC₅₀=3.9 μM). SN-401 increases adipocyte SWELL1 protein expression, and SWELL1-dependent insulin signaling. SN-401 increases SWELL1 and improves systemic glucose homeostasis in murine T2D models by enhancing insulin sensitivity and secretion. SN-401 improves systemic insulin sensitivity, tissue glucose uptake, and nonalcoholic fatty liver disease in murine T2D models. SN-401 inhibits ICI, SWELL but promotes SWELL1-dependent signaling at sub-micromolar concentrations (0.1-1 μM). SN-401 prevents reductions in SWELL1 protein and rescues SWELL1-dependent islet insulin secretion under glucolipotoxic conditions. SN-401 congeners improve glycemic control in murine T2D models.

References

David M Kern, et al. *Elife*. 2019 Feb 18;8:e42636.
Gunasekar SK, et al. *Nat Commun*. 2022 Feb 10;13(1):784.

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

E-mail: tech@probechem.com