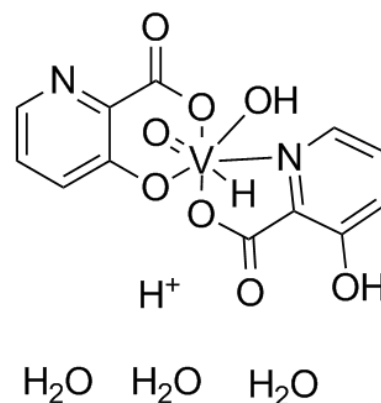


Product Name : VO-Ohpic trihydrate
Cat. No. : PC-43375
CAS No. : 476310-60-8
Molecular Formula : C₁₂H₁₆N₂O₁₁V⁺
Molecular Weight : 415.2032
Target : PTEN
Solubility : 10 mM in DMSO; H₂O: < 0.1 mg/mL



Biological Activity

VO-Ohpic trihydrate (VO-Ohpic) is a potent, selective and reversible **PTEN** inhibitor with IC₅₀ of 35 nM in vitro. VO-Ohpic specifically inhibits PTEN's cellular enzymatic activity, which in turn activates downstream targets such as Akt and FoxO3a, inhibits cell viability, cell proliferation and colony formation, and induces senescence-associated β-galactosidase activity in Hep3B cells (low PTEN expression). VO-Ohpic increases cellular PIP3 levels, phosphorylation of Akt, and glucose uptake in adipocytes at nanomolar concentrations. VO-Ohpic decreases left ventricular systolic pressure and heart rate before ischemia in mice.

References

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 Mak LH, et al. **J Chem Biol.** 2010 Oct;3(4):157-63.
 Augello G, et al. **Cell Cycle.** 2016;15(4):573-83.

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

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