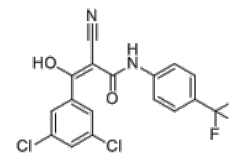


Product Name : TPC2-A1-N
Cat. No. : PC-49241
CAS No. : 136186-07-7
Molecular Formula : C₁₇H₉Cl₂F₃N₂O₂
Molecular Weight : 401.166
Target : Calcium Channel
Solubility : 10 mM in DMSO



Biological Activity

TPC2-A1-N is a membrane permeable isoform-selective small molecule agonist of **two-pore channel 2 (TPC2)** with EC₅₀ of 7.8 μM in cell-based Ca²⁺ signals assays, mediates changes in intracellular calcium in the absence of extracellular calcium.

TPC2-A1-N evokes Na⁺ currents in isolated endo-lysosomes with EC₅₀ of 0.6 μM in endo-lysosomal patch-clamp experiments.

TPC2-A1-P but not TPC2-A1-N promoted lysosomal exocytosis.

TPC2-A1-N increases the pH in the lysosomal lumen in a TPC2-dependent manner, TPC2-A1-P has no significant effect on lysosomal pH.

References

Susanne Gerndt, et al. *Elife*. 2020 Mar 16;9:e54712.

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

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