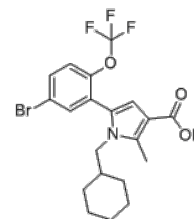


Product Name : TPC2-A1-P
Cat. No. : PC-49242
CAS No. : 2804595-86-4
Molecular Formula : C₂₀H₂₁BrF₃NO₃
Molecular Weight : 460.291
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

TPC2-A1-P is a membrane permeable isoform-selective small molecule agonist of two-pore channel 2 (**TPC2**) with EC₅₀ of 10.5 μ M in cell-based Ca²⁺ signals assays, mediates changes in intracellular calcium in the absence of extracellular calcium.

TPC2-A1-P evokes Na⁺ currents in isolated endo-lysosomes with EC₅₀ of 0.6 μ M 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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