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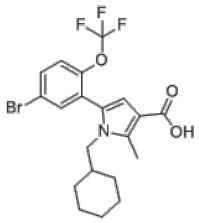
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	TPC2-A1-P
Cat. No.	:	PC-49242
CAS No.	:	2804595-86-4
Molecular Formula	:	$C_{20}H_{21}BrF_3NO_3$
Molecular Weight	:	460.291
Target	:	Calcium Channel
Solubility	:	10 mM in DMSO



Biological Activity

TPC2-A1-P is a membrane permeable isoform-selective small molecule agonist agonist of two-pore channel 2 (**TPC2**) with EC50 of 10.5 uM 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 uM 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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