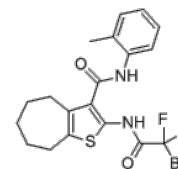


Product Name : TMinh-23
Cat. No. : PC-47048
CAS No. : 2098490-06-1
Molecular Formula : C₁₉H₁₉BrF₂N₂O₂S
Molecular Weight : 457.334
Target : Chloride Channel
Solubility : 10 mM in DMSO



Biological Activity

TMinh-23 (Compound 10bm) is a potent, selective inhibitor of transmembrane protein 16A (**TMEM16A** or ANO1, DOG1, ORAOV2, TAOS-2) with IC₅₀ of 30 nM in short-circuit current assays, weakly inhibits TMEM16B (IC₅₀=400 nM, 13 -fold selectivity).

TMinh-23 fully inhibited calcium-activated TMEM16A chloride current with nanomolar potency in Fischer rat thyroid cells expressing TMEM16A, and in primary cultures of rat vascular smooth muscle cells.

TMinh-23 reduced vasoconstriction caused by the thromboxane mimetic U46619 in mesenteric resistance arteries of wild-type and spontaneously hypertensive rats, with a greater inhibition in spontaneously hypertensive rats.

TMinh-23 blocked vascular smooth muscle contraction and lowers blood pressure in spontaneously hypertensive rats.

References

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Eric C Truong, et al. *J Med Chem.* 2017 Jun 8;60(11):4626-4635.

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

E-mail: tech@probechem.com