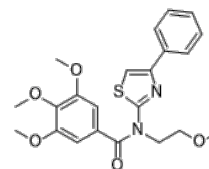


Product Name : TMEM16A activator E(act)
Cat. No. : PC-23882
CAS No. : 461000-66-8
Molecular Formula : C₂₃H₂₆N₂O₅S
Molecular Weight : 442.53
Target : Chloride Channel
Solubility : 10 mM in DMSO



Biological Activity

TMEM16A activator E(act) (Eact) is a small molecule activator of calcium-activated chloride channel TMEM16A (ANO1) with EC50 of 3 μ M.

E(act) is effective in producing Cl⁻ current in mouse TMEM16A.

E(act) shows activation by Eact of TMEM16B, the other TMEM16 isoform having CaCC activity, does not affect CFTR Cl⁻ conductance or ENaC Na⁺ conductance.

E(act) inhibits TMEM16A Cl⁻ conductance, providing further evidence for direct TMEM16A binding.

E(act) increases CaCC conductance in human salivary and airway submucosal gland epithelial cells, and IL-4 treated bronchial cells, and stimulates submucosal gland secretion in human bronchi and smooth muscle contraction in mouse intestine.

References

Wan Namkung, et al. FASEB J. 2011 Nov;25(11):4048-62.

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

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