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Data Sheet

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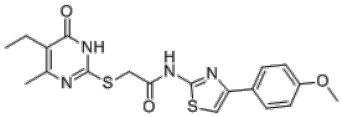
Product Name	:	T16Ainh-A01
Cat. No.	:	PC-35990
CAS No.	:	552309-42-9
Molecular Formula	:	$C_{19}H_{20}N_4O_3S_2$
Molecular Weight	:	416.514
Target	:	Chloride Channel
Solubility	:	10 mM in DMSO



Biological Activity

T16Ainh-A01 is an inhibitor of the calcium-activated chloride channel **TMEM16A**, inhibits Ca2+-activated Cl− channel (CACC) activity in TMEM16A-transfected FRT cells with IC50 of 1 uM.
T16Ainh-A01 (1-30 uM) inhibited single calcium (Ca2+)-activated chloride (Cl−) channels and whole cell currents activated by 500 nM free Ca2+.
T16Ainh-A01 relaxed mouse thoracic aorta pre-contracted with methoxamine with an IC50 of 1.6 uM and suppressed the methoxamine concentration-effect curve.
T16Ainh-A01 blocks calcium-activated chloride channels in vascular smooth muscle cells and relaxes murine and human blood vessels.

References

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Forrest AS, et al. ***Am J Physiol Cell Physiol.*** 2012 Dec 15;303(12):C1229-43.

Namkung W, et al. ***J Biol Chem.*** 2011 Jan 21;286(3):2365-74.

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