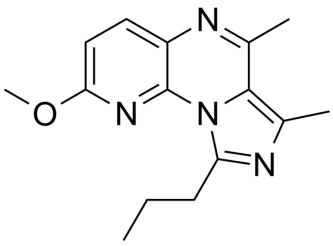
TC-E 5005

Cat. No.:	HY-10568
CAS No.:	959705-64-7
Molecular Formula:	$C_{15}H_{18}N_4O$
Molecular Weight:	270.33
Target:	Phosphodiesterase (PDE)
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	TC-E 5005 is a potent and selective PDE10A inhibitor with IC_{50} values of 7.28, 239, 779, 919, 3,100, and 3,700 nM for PDE10A, 2A, 11A, 5A, 7B and 3A, respectively. TC-E 5005 inhibits adrenergic and neurogenic smooth muscle contractions in the human prostate[1].

IC_{50} & Target				
	PDE10A 7.28 nM (IC_{50})	PDE2A 239 nM (IC_{50})	hPDE11A 779 nM (IC_{50})	PDE5A 919 nM (IC_{50})
	PDE7B 3100 nM (IC_{50})	PDE3A 3700 nM (IC_{50})		

In Vitro	TC-E 5005 (500 nM) inhibits norepinephrine or phenylephrine and EFS (electric field stimulation)-induced contraction of human prostate strips[1]. TC-E 5005 (500 nM) shows amplification of treprostinil-induced relaxations, which were significant from 0.03 to 30 μM treprostinil[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Hennenberg M, et al. Inhibition of Adrenergic and Non-Adrenergic Smooth Muscle Contraction in the Human Prostate by the Phosphodiesterase 10-Selective Inhibitor TC-E 5005. Prostate. 2016 Nov;76(15):1364-74.

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