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Data Sheet

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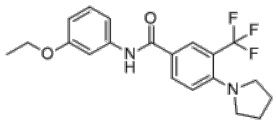

Product Name	:	EPPTB
Cat. No.	:	PC-61073
CAS No.	:	1110781-88-8
Molecular Formula	:	$C_{20}H_{21}F_3N_2O_2$
Molecular Weight	:	378.395
Target	:	Trace Amine-associated Receptor (TAAR)
Solubility	:	10 mM in DMSO

Biological Activity

EPPTB (Ro 5212773) is a potent, selective mouse **TAAR1 antagonist** that potently antagonizes cAMP production induced by 1.5 uM β-phenylethylamine with IC50 of 27.5 nM, Ki of 1 nM.
EPPTB (Ro 5212773) displays >1,000-fold selectivity over dopamine, serotonin and adrenergic receptors.
EPPTB (Ro 5212773) dose-dependently reduces cAMP levels in HEK293 cells in the absence of TAAR1 agonist with IC50 of 19±12 nM, significantly more potent in antagonizing cAMP production by mouse, as compared to rat and human.
EPPTB (Ro 5212773)blocks the TAAR1-mediated activation of an inwardly rectifying K(+) current at dopamine (DA) neurons of the ventral tegmental area.

References

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Leo D, et al. ***Neuropharmacology.*** 2014 Jun;81:283-91.

Liu X, et al. ***J Pharmacol Exp Ther.*** 2014 Jul;350(1):124-9.

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

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