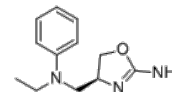


Product Name : RO5166017
Cat. No. : PC-61075
CAS No. : 1048346-74-2
Molecular Formula : C₁₂H₁₇N₃O
Molecular Weight : 219.288
Target : Trace Amine-associated Receptor (TAAR)
Solubility : 10 mM in DMSO



Biological Activity

RO5166017 is a potent, selective **TAAR1** agonist with K_i of 1.9, 2.7, 31 and 24 nM for mouse, rat, cynomolgus monkey and human TAAR1 stably expressed in HEK293 cells.

RO 5166017 does not elicit cAMP production from mouse TAAR4 at 30 uM, and 79-, 64-, and 15-fold selectivity over κ-opioid, adrenergic α₂, and imidazoline I1 receptors.

RO 5166017 selectively inhibits the firing frequency of dopaminergic and serotonergic neurons in TAAR1 expressed regions in mouse brain slices (IC₅₀=1.73 nM).

RO 5166017 prevents stress-induced hyperthermia and blocks dopamine-dependent hyperlocomotion in cocaine-treated and dopamine transporter knockout mice.

References

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

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