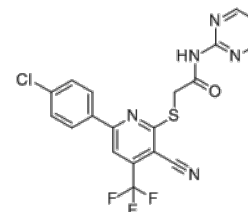


Product Name : RTI-7470-44
Cat. No. : PC-72353
CAS No. : 825658-63-7
Molecular Formula : C₁₉H₁₁ClF₃N₅OS
Molecular Weight : 449.836
Target : Trace Amine-associated Receptor (TAAR)
Solubility : 10 mM in DMSO



Biological Activity

RTI-7470-44 is a potent, selective human trace amine-associated receptor subtype 1 (**hTAAR1**) antagonist with IC₅₀ of 8.4 nM in vitro cAMP functional assay.

RTI-7470-44 exhibits a K_i of 0.3 nM in a radioligand binding assay, and shows species selectivity (>90-fold) for hTAAR1 over the rat and mouse orthologues.

RTI-7470-44 displays good blood–brain barrier permeability, moderate metabolic stability, and a favorable preliminary off-target profile.

RTI-7470-44 increased the spontaneous firing rate of mouse VTA dopaminergic neurons and blocked the effects of the known TAAR1 agonist RO5166017.

References

Ann M Decker, et al. *ACS Chem Neurosci*. 2022 Mar 24. doi: 10.1021/acscchemneuro.2c00086.

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

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