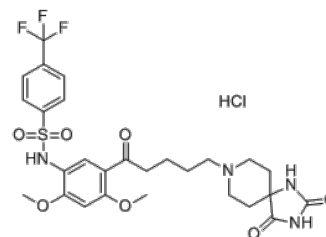


Product Name : RS-102221
Cat. No. : PC-60815
CAS No. : 187397-18-8
Molecular Formula : C₂₇H₃₁F₃N₄O₇S.HCl
Molecular Weight : 649.08
Target : 5-HT Receptor
Solubility : 10 mM in DMSO



Biological Activity

RS-102221 is a highly potent, selective **5-HT_{2C}** receptor antagonist with pK_i of 8.4 and 8.5 for human and rat 5-HT_{2C}, respectively.

RS-102221 demonstrates 100-fold selectivity for the 5-HT_{2C} versus 5-HT_{2A} and 5-HT_{2B} receptors.

RS-102221 acts as an antagonist in a cell-based microphysiology functional assay with pA₂ of 8.1 and has no detectable intrinsic efficacy; increases food-intake and weight-gain in rats (2 mg/kg, i.p.).

RS-102221 reverses the inhibitory effects of MK-212 and DOI on 'monosynaptic and 'intermediate' neurones.

References

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Bonhaus DW, et al. *Ann N Y Acad Sci*. 1998 Dec 15;861:269.

Sévoz-Couche C, et al. *Br J Pharmacol*. 2000 Dec;131(7):1445-53.

McMahon LR, et al. *J Neurosci*. 2001 Oct 1;21(19):7781-7.

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

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