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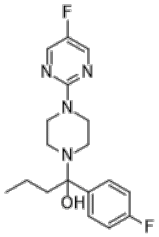
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	BMY-14802
Cat. No.	:	PC-27161
CAS No.	:	105565-56-8
Molecular Formula	:	$C_{18}H_{22}F_2N_4O$
Molecular Weight	:	348.40
Target	:	Sigma Receptor
Solubility	:	10 mM in DMSO



Biological Activity

BMY-14802 is a potent sigma-1 receptor (σ1R) antagonist with IC50 of 112 nM, also an agonist at serotonin 5-HT1A (IC50=320 nM) and adrenergic α-1 receptor (IC50=460 nM).
BMY-14802 does not bind with high affinity to the D1 or D2 receptor (IC50s>1,000 and 6,430 nM, respectively).
BMY-14802 suppresses not only AIM but also L-DOPA-induced rotation.
The AIM-suppressing action of BMY-14802 is dependent on 5-HT1A but not adrenergic α-1 receptors, as this effect is prevented by the 5-HT1A antagonist WAY-100653 but not the α-1 antagonist prazosin.

References

Paquette MA, et al. sychopharmacology (Berl). 2009 Jul;204(4):743-54.

Yevich JP, et al. J Med Chem. 1992;35:4516–4525.

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