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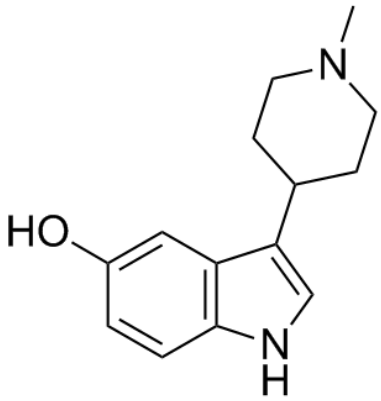
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	BRL54443
Cat. No.	:	PC-43401
CAS No.	:	57477-39-1
Molecular Formula	:	$C_{14}H_{18}N_2O$
Molecular Weight	:	230.3055
Target	:	5-HT Receptor
Solubility	:	DMSO: ≥ 51 mg/mL



Biological Activity

BRL54443 is a potent, releative selective **5-HT1E/1F** agonist with Ki of 2/1 nM, respectively.
BRL54443 shows low affinity for other receptors 5-HT1A (63 nM), 5-HT1B (126 nM), 5-HT1D (63 nM), 5-HT2A (1259 nM), 5-HT2B (100 nM), 5-HT2C (316 nM), 5-HT6 (>10,000 nM), 5-HT7 (>10,000 nM), D2 (501 nM), D3 (631 nM), and α1B-adrenoceptors (1259 nM).
BRL54443 selectively stimulates 5-HT1E receptors and potently inhibits forskolin-dependent cAMP production with IC50 of 14 nM in DG membranes.
BRL54443 significantly reduces formalin-induced flinching in rats.

References

Klein MT, et al. ***J Pharmacol Exp Ther***. 2011 Jun;337(3):860-7.

Klein MT,et al. ***Br J Pharmacol***. 2012 Jun;166(4):1290-302.

Granados-Soto V, et al. ***Neuroscience***. 2010 Jan 20;165(2):561-8.

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

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