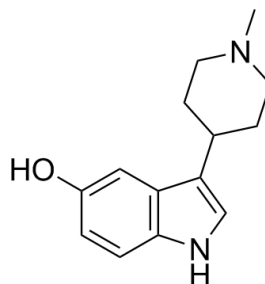


**Product Name** : BRL54443  
**Synonyms** : BRL 54443;BRL-54443  
**Cat No.** : M15098  
**CAS Number** : 57477-39-1  
**Molecular Formula** : C<sub>14</sub>H<sub>18</sub>N<sub>2</sub>O  
**Formula Weight** : 230.31  
**Chemical Name** : 1H-Indol-5-ol, 3-(1-methyl-4-piperidinyl)-



**Description** : BRL54443 is a potent, relative selective 5-HT<sub>1E</sub>/1F agonist with K<sub>i</sub> of 2/1 nM, respectively; shows low affinity for other receptors 5-HT<sub>1A</sub> (63 nM), 5-HT<sub>1B</sub> (126 nM), 5-HT<sub>1D</sub> (63 nM), 5-HT<sub>2A</sub> (1259 nM), 5-HT<sub>2B</sub> (100 nM), 5-HT<sub>2C</sub> (316 nM), 5-HT<sub>6</sub> (>10,000 nM), 5-HT<sub>7</sub> (>10,000 nM), D<sub>2</sub> (501 nM), D<sub>3</sub> (631 nM), and α<sub>1B</sub>-adrenoceptors (1259 nM); selectively stimulates 5-HT<sub>1E</sub> receptors and potently inhibits forskolin-dependent cAMP production with IC<sub>50</sub> of 14 nM in DG membranes; significantly reduces formalin-induced flinching in rats.

**Pathway** : Endocrinology/Hormones  
**Target** : 5-HT Receptor  
**Receptor** : 5-HT<sub>1A</sub>;5-HT<sub>1B</sub>;5-HT<sub>1D</sub>;5-HT<sub>1E</sub>;5-HT<sub>1F</sub>  
**Solubility** : DMSO: ≥ 51 mg/mL  
**SMILES** : CN1CCC(C2=CNC3=C2C=C(O)C=C3)CC1  
**Storage** : (-20°C)  
**Stability** : ≥ 2 years  
**Reference** :

1. Klein MT, et al. J Pharmacol Exp Ther. 2011 Jun;337(3):860-7. | 2. Klein MT, et al. Br J Pharmacol. 2012 Jun;166(4):1290-302. | 3. Granados-Soto V, et al. Neuroscience. 2010 Jan 20;165(2):561-8.