

## Product Datasheet

### BRL54443 (orb1224620)

|                          |   |
|--------------------------|---|
| <b>Catalog Number</b>    | orb1224620  |
| <b>Category</b>          | Small Molecules   |
| <b>Description</b>       | BRL54443 is a potent, relative selective 5-HT <sub>1E/1F</sub> 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. |
| <b>Target</b>            | 5-HT Receptor   |
| <b>Purity</b>            | >98% (HPLC)   |
| <b>MW</b>                | 230.3055  |
| <b>Target Areas</b>      | 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>  |
| <b>Solubility (25°C)</b> | DMSO: ≥ 51 mg/mL  |
| <b>CAS Number</b>        | 57477-39-1  |
| <b>Formula</b>           | C <sub>14</sub> H <sub>18</sub> N <sub>2</sub> O  |
| <b>SMILES</b>            | CN1CCC(C2=CNC3=C2C=C(O)C=C3)CC1   |
| <b>Chemical Name</b>     | 1H-Indol-5-ol, 3-(1-methyl-4-piperidinyl)-  |
| <b>Storage</b>           | Storage temperature: -20°C. Stability: ≥ 2 years  |
| <b>Note</b>              | For research use only   |
| <b>Expiration Date</b>   | 12 months from date of receipt.   |

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