

Product Datasheet

BRL54443 (orb1224620)

Catalog Number	orb1224620
Category	Small Molecules
Description	BRL54443 is a potent, relative selective 5-HT _{1E/1F} agonist with K _i of 2/1 nM, respectively; shows low affinity for other receptors 5-HT _{1A} (63 nM), 5-HT _{1B} (126 nM), 5-HT _{1D} (63 nM), 5-HT _{2A} (1259 nM), 5-HT _{2B} (100 nM), 5-HT _{2C} (316 nM), 5-HT ₆ (>10,000 nM), 5-HT ₇ (>10,000 nM), D ₂ (501 nM), D ₃ (631 nM), and α _{1B} -adrenoceptors (1259 nM); selectively stimulates 5-HT _{1E} receptors and potently inhibits forskolin-dependent cAMP production with IC ₅₀ of 14 nM in DG membranes; significantly reduces formalin-induced flinching in rats.
Target	5-HT Receptor
Purity	>98% (HPLC)
MW	230.3055
Target Areas	5-HT _{1A} 5-HT _{1B} 5-HT _{1D} 5-HT _{1E} 5-HT _{1F}
Solubility (25°C)	DMSO: ≥ 51 mg/mL
CAS Number	57477-39-1
Formula	C ₁₄ H ₁₈ N ₂ O
SMILES	CN1CCC(C2=CNC3=C2C=C(O)C=C3)CC1
Chemical Name	1H-Indol-5-ol, 3-(1-methyl-4-piperidinyl)-
Storage	Storage temperature: -20°C. Stability: ≥ 2 years
Note	For research use only
Expiration Date	12 months from date of receipt.

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