

Product Name: BRL 54443

Catalog No.: 1129

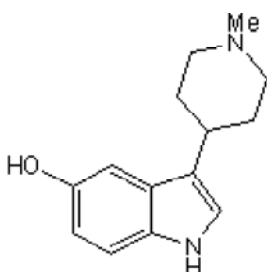
Batch No.: 2

CAS Number: 57477-39-1

IUPAC Name: 5-Hydroxy-3-(1-methylpiperidin-4-yl)-1*H*-indole

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₁₈N₂O
Batch Molecular Weight: 230.31
Physical Appearance: White solid
Solubility: DMSO to 50 mM
Storage: Desiccate at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.15 (Dichloromethane:Methanol:Ammonia soln. [5:1:0.1])
Melting Point: Between 235 - 238°C
¹H NMR: Consistent with structure

Microanalysis:		Carbon	Hydrogen	Nitrogen
	Theoretical	73.01	7.88	12.16
	Found	72.65	7.9	12.13

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956

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Description:

A potent 5-HT_{1E/1F} receptor agonist (pEC₅₀ values are 8.5 and 8.6 respectively). Displays > 30-fold selectivity over other 5-HT and dopamine receptors (pK_i values are 8.7, 8.9, 7.2, 6.9, 7.2, 5.9, 7.0, 6.5, < 6, < 6, 6.3 and 6.2 for human 5-HT_{1E}, 1F, 1A, 1B, 1D, 2A, 2B, 2C, 4, 7, D₂ and D₃ receptors respectively). Induces 5-HT_{2A} receptor-mediated mouse aortic contraction in vitro (pEC₅₀ = 6.52). Active in vivo.

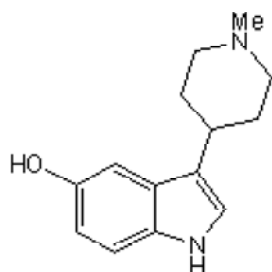
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References:

McKune and Watt (2001) Characterization of the serotonin receptor mediating contraction in the mouse thoracic aorta and signal pathway coupling. *J.Pharmacol.Exp.Ther.* **297** 88. PMID: 11259531.

Brown et al (1998) BRL 54443, a potent agonist with selectivity for human cloned 5-HT_{1E} and 5-HT_{1F} receptors. *Br.J.Pharmacol.* **123** 233P.

Lightowler et al (1998) Effect of BRL 54443 (3-(1-methylpiperidin-4-yl)-1H-indol-5-ol), a 5-HT_{1E/1F} receptor agonist, on general behaviour and maximal electroshock seizure threshold in the rat. *Br.J.Pharmacol.* **123** 237P.

Storage: Desiccate at +4°C

Solubility & Usage Info:

DMSO to 50 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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