

Certificate of Analysis

www.tocris.com

Product Name: L-741,626

Catalog No.: 1003

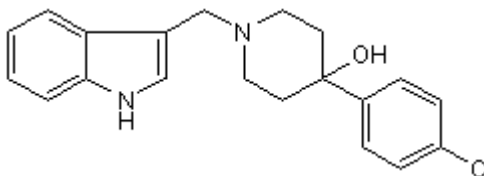
Batch No.: 1

CAS Number: 81226-60-0

IUPAC Name: 3-[[4-(4-Chlorophenyl)-4-hydroxypiperidin-1-yl]methyl-1*H*-indole

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₂₁ClN₂O
Batch Molecular Weight: 340.85
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.48 (Chloroform:Methanol:Ammonia soln. [20:1:5])
Melting Point: Between 147 - 149°C
¹H NMR: Consistent with structure
Microanalysis:

	Carbon Hydrogen Nitrogen			
Theoretical	70.47	6.21	8.22	0 0 0
Found	70.54	6.22	8.18	0 0 0

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

Product Name: L-741,626

Catalog No.: 1003

Batch No.: 1

CAS Number: 81226-60-0

IUPAC Name: 3-[[4-(4-Chlorophenyl)-4-hydroxypiperidin-1-yl]methyl]-1*H*-indole

Description:

A potent D₂ dopamine receptor selective antagonist, with affinities of 2.4, 100 and 220 nM for D₂, D₃ and D₄ receptors respectively. Centrally active following systemic administration in vivo.

Physical and Chemical Properties:

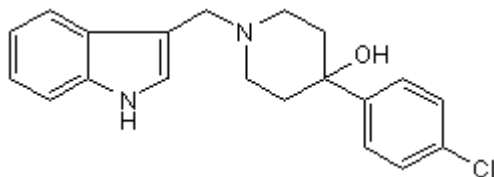
Batch Molecular Formula: C₂₀H₂₁ClN₂O

Batch Molecular Weight: 340.85

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 100 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.

References:

Bowery et al (1996) Antagonism of the effects of (+)-PD 128907 on midbrain dopamine neurones in rat brain slices by a selective D₂ receptor antagonist L-741,626. *Br.J.Pharmacol.* **119** 1491. PMID: 8968560.

Kulagowski et al (1996) 3-[[4-(4-Chlorophenyl)piperazin-1-yl]methyl]-1*H*-pyrrolo[2,3-*b*]pyridine: an antagonist with high affinity and selectivity for the human dopamine D₄ receptor. *J.Med.Chem.* **39** 1941. PMID: 8642550.

Pillai et al (1998) Human D₂ and D₄ dopamine receptors couple through βγ G-protein subunits to inwardly rectifying K⁺ channels (GIRK1) in a *Xenopus* oocyte expression system: selective antagonism by L-741,626 and L-745,870 respectively. *Neuropharmacology* **37** 983. PMID: 9833627.

Millan et al (2000) S33084, a novel, potent, selective, and competitive antagonist at dopamine D₃-receptors: II. Functional and behavioral profile compared with GR218,231 and L741,626. *J.Pharmacol.Exp.Ther.* **293** 1063. PMID: 10869411.

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