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Print Date: Jan 11th 2016

Certificate of Analysis

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Product Name: **Roxindole hydrochloride** **Catalog No.: 1559** **Batch No.: 4**

CAS Number: 108050-82-4

IUPAC Name: 3-[4-(3,6-Dihydro-4-phenyl-1(2*H*)-pyridinyl)butyl]-1*H*-indol-5-ol hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{23}H_{26}N_2O.HCl$

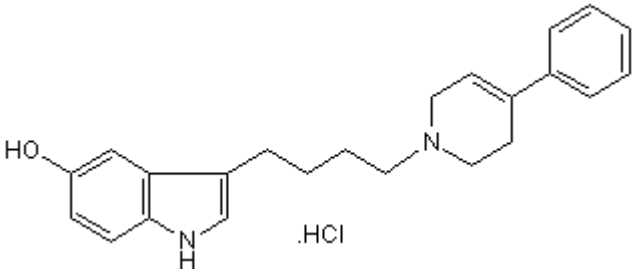
Batch Molecular Weight: 382.93

Physical Appearance: Beige solid

Solubility: DMSO to 50 mM with gentle warming

Storage: Desiccate at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	72.14	7.11	7.32
Found	72.16	7.35	7.37

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Product Information

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CAS Number: 108050-82-4

IUPAC Name: 3-[4-(3,6-Dihydro-4-phenyl-1(2*H*)-pyridinyl)butyl]-1*H*-indol-5-ol hydrochloride

Description:

Dopamine D_2 autoreceptor agonist, with affinity for D_3, D_4 and 5-HT_1 receptors (pK_i values are 8.55, 8.93, 8.23, 9.42, 6.00 and 7.05 for human D_2, D_3, D_4, 5-HT_{1A}, 5-HT_{1B} and 5-HT_{1D} receptors). Inhibits 5-HT uptake and is antidepressant in vivo.

Physical and Chemical Properties:

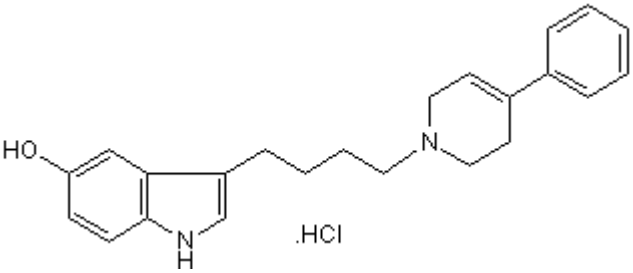
Batch Molecular Formula: $C_{23}H_{26}N_2O.HCl$

Batch Molecular Weight: 382.93

Physical Appearance: Beige solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 50 mM with gentle warming

CAUTION - Wherever possible stock solutions should be stored at -20°C and used within one week.

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:

Seyfried *et al* (1989) Biochemical and functional studies on EMD 49980: a potent, selectively presynaptic D-2 dopamine agonist with actions on serotonin systems. Eur.J.Pharmacol. ***160*** 31. PMID: 2565817.

Bartoszyk *et al* (1996) Roxindole: psychopharmacological profile of a dopamine D_2 autoreceptor agonist. J.Pharmacol.Exp.Ther. ***276*** 41. PMID: 8558454.

Newman-Tancredi *et al* (1999) Actions of roxindole at recombinant human dopamine D_2, D_3 and D_4 and serotonin 5-HT_{1A}, 5-HT_{1B} and 5-HT_{1D} receptors. Naunyn Schmiedebergs Arch.Pharmacol. ***359*** 447. PMID: 10431754.

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