TOCRIS
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Print Date: Jan 15th 2016

Certificate of Analysis

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Product Name: **Carmoxirole hydrochloride** **Catalog No.: 2193** **Batch No.: 1**

CAS Number: 115092-85-8

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{24}H_{26}N_2O_2.HCl.½H_2O$

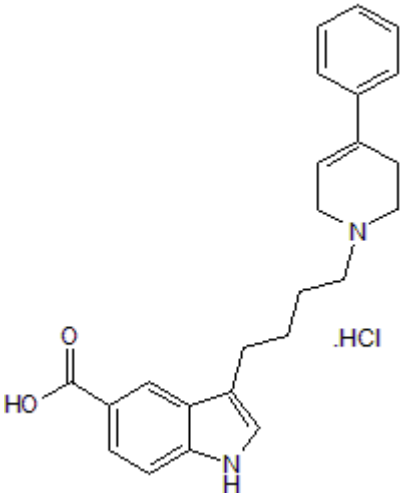
Batch Molecular Weight: 419.95

Physical Appearance: Tan solid

Solubility: DMSO to 100 mM

Storage: Desiccate at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: Between 282 - 286°C(dec)

HPLC: Shows >98.1% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	68.64	6.72	6.67
Found	68.56	6.6	6.54

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Product Information

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CAS Number: 115092-85-8

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

Description:

Selective, peripherally acting dopamine D_2 receptor agonist. Modulates noradrenalin release and sympathetic activation. Displays antihypertensive properties in vivo.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{24}H_{26}N_2O_2.HCl.½H_2O$

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Physical Appearance: Tan solid

Minimum Purity: >98%

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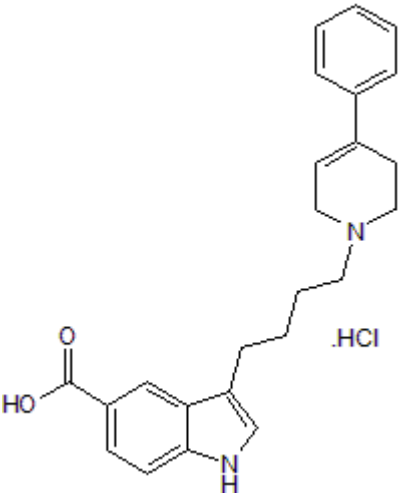

Storage: Desiccate at +4°C

Solubility & Usage Info:

DMSO 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:

Hasse *et al* (1991) Neurochemical profile of EMD 45609 (carmoxirole), a dopamine DA2-receptor agonist. Naunyn-Schmied.Arch.Pharmacol. ***343*** 588.

Haeusler *et al* (1992) Pharmacological basis for antihypertensive therapy with a novel dopamine agonist Eur.Heart J. ***13*** 129. PMID: 1356783.

Rump *et al* (1993) Dopamine receptor modulation of noradrenaline release by carmoxirole in human cortical kidney slices. Eur.J.Clin.Pharmacol. ***44*** S47. PMID: 8097997.

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