Print Date: Jan 8th 2016

Certificate of Analysis

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Product Name: **BU 224 hydrochloride** **Catalog No.: 0725** **Batch No.: 4**

CAS Number: 205437-64-5

IUPAC Name: 2-(4,5-Dihydroimidazol-2-yl)quinoline hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{12}H_{11}N_3.HCl$

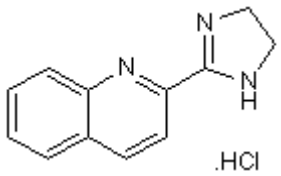
Batch Molecular Weight: 233.7

Physical Appearance: White solid

Solubility: DMSO to 10 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.18 (Dichloromethane:Methanol [10:1])

Melting Point: Greater than 300°C

^{1}H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	61.67	5.14	17.99
Found	61.64	5.14	17.82

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Description:

High affinity ligand for the imidazoline I_2 binding site (K_i = 2.1 nM). Putative I_2 antagonist; antagonizes the effects of imidazoline ligands on morphine antinociception. Produces ipsiversive rotational behavior in rats with a full 6-OHDA lesion of the nigrostriatal tract.

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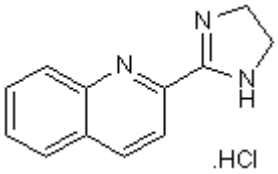

Storage: Desiccate at RT

Solubility & Usage Info:

DMSO to 10 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:

Hudson *et al* (1994) Affinity and selectivity of BU224 and BU239 for rabbit brain non-adrenoceptor idazoxan binding sites (I_2) sites). Br.J.Pharmacol. ***112*** 320P.

Hudson *et al* (1999) Novel selective compounds for the investigation of imidazoline receptors. Ann.N.Y.Acad.Sci. ***881*** 81. PMID: 10415900.

Sanchez-Blasquez *et al* (2000) Activation of I_2-imidazoline receptors enhances supraspinal morphine analgesia in mice: a model to detect agonist and antagonist activities at these receptors. Br.J.Pharmacol. ***130*** 146. PMID: 10781010.

MacInnes and Dut (2004) Locomotor effects of imidazoline I_2-site-specific ligands and monoamine oxidase inhibitors in rats with a unilateral 6-hydroxydopamine lesion of the nigrostriatal pathway. Br.J.Pharmacol. ***143*** 952. PMID: 15545290.