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Print Date: Jan 14th 2016

Certificate of Analysis

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Product Name: Carbazeran citrate

CAS Number: 153473-94-0 IUPAC Name: Ethyl 1-(6,7-c

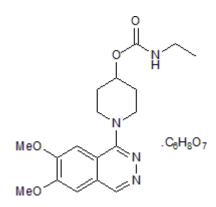
Ethyl 1-(6,7-dimethoxy-1-phthalazinyl)-4-piperidinyl carbamate citrate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: $C_{18}H_{24}N_4O_4$. $C_6H_8O_7$. H_2O 570.55 White solid water to 50 mM DMSO to 100 mM ethanol to 10 mM

Store at +4°C

Storage: Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: ¹H NMR: Mass Spectrum: Microanalysis: Shows 99.9% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen Theoretical 50.52 6.01 9.82 Found 50.53 5.94 9.89

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

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Catalog No.: 4420

Batch No.: 1

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Product Name: Carbazeran citrate

CAS Number: 153473-94-0

IUPAC Name: Ethyl 1-(6,7-dimethoxy-1-phthalazinyl)-4-piperidinyl carbamate citrate

Description:

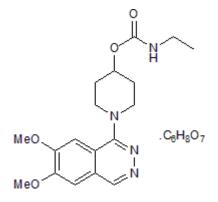
Aldehyde oxidase (AO) substrate. Exhibits activities as a phosphodiesterase inhibitor; produces concentration-dependent positive inotropic responses in isolated right atria.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{18}H_{24}N_4O_4$. $C_6H_8O_7$. H_2O Batch Molecular Weight: 570.55 Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

water to 50 mM DMSO to 100 mM ethanol 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).

Catalog No.: 4420

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:

Shahid and Rodger et al (1989) Chronotropic and inotropic actions of amrinone, carbazeran and isobutylmethyl xanthine: role of phosphodiesterase inhibition. Br.J.Pharmacol. 98 291. PMID: 2478244.

Hutzler et al (2011) Characterization of aldehyde oxidase enzyme activity in cryopreserved human hepatocytes. Drug Metab.Dispos. 40 267. PMID: 22031625.

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