Certificate of Analysis

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Print Date: Jan 8th 2016

Product Name: GR 55562 dihydrochloride

Catalog No.: 1054 Batch No.: 7

CAS Number: IUPAC Name:

TOCRIS

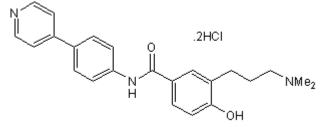
a biotechne brand

159533-25-2

3-[3-(Dimethylamino)propyl]-4-hydroxy-N-[4-(4-pyridinyl)phenyl]benzamide dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: Storage: Batch Molecular Structure: $C_{23}H_{25}N_3O_2.2HCI.\frac{1}{2}H_2O$ 457.4 Pale yellow solid water to 100 mM Desiccate at +4°C



2. ANALYTICAL DATA

TLC:R_f = 0.42 (Chloroform:Methanol:Ammonia soln. [85:13.5:1.5])HPLC:Shows 99.8% purity¹H NMR:Consistent with structureMass Spectrum:Consistent with structureMicroanalysis:Carbon Hydrogen NitrogenTheoretical 60.46.179.19

Found

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

60.25

6.29

9.14

bio-techne.com	North America	China	Europe Middle East Africa	Rest of World
info@bio-techne.com techsupport@bio-techne.com	Tel: (800) 343 7475	info.cn@bio-techne.com Tel: +86 (21) 52380373	Tel: +44 (0)1235 529449	www.tocris.com/distributors Tel:+1 612 379 2956

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CAS Number: 159533-25-2

IUPAC Name: 3-[3-(Dimethylamino)propyl]-4-hydroxy-*N*-[4-(4-pyridinyl)phenyl]benzamide dihydrochloride

Description:

A selective competitive 5-HT_{1B} (5-HT_{1Dβ}) silent antagonist with pK_B values of 7.3 and 6.3 for human cloned 5-HT_{1B} and 5-HT_{1D} receptors respectively and only weak binding at a number of other 5-HT subtypes.

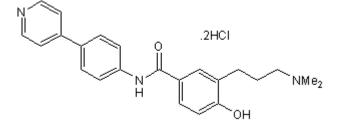
Physical and Chemical Properties:

Batch Molecular Formula: $C_{23}H_{25}N_3O_2.2HCI.\frac{1}{2}H_2O$ Batch Molecular Weight: 457.4

Physical Appearance: Pale yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info: water 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).

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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:

Walsh *et al* (1995) The activity of 5-HT_{1D} receptor ligands at cloned human 5-HT_{1D $\alpha}$ and 5-HT_{1D $\beta} receptors. Eur.J.Pharmacol.$ **287**79. PMID: 8666030.</sub></sub>

Connor *et al* (1995) Use of GR55562, a selective 5-HT_{1D} antagonist, to investigate 5-HT_{1D} receptor subtypes mediating cerebral vasoconstriction. Cephalalgia **15** (suppl. 14) 99.

MacLean *et al* (1996) Evidence for 5-HT₁-like receptor-mediated vasoconstriction in human pulmonary artery. Br.J.Pharmacol. **119** 277. PMID: 8886409.

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bio-techne.com	North America	China	Europe Middle East Africa	Rest of World
info@bio-techne.com techsupport@bio-techne.com	Tel: (800) 343 7475	info.cn@bio-techne.com Tel: +86 (21) 52380373	Tel: +44 (0)1235 529449	www.tocris.com/distributors Tel:+1 612 379 2956