TOCRIS a biotechne brand

Batch No.: 2

Certificate of Analysis

www.tocris.com

Catalog No.: 1746

Product Name: Nemonapride

CAS Number: IUPAC Name:

Storage:

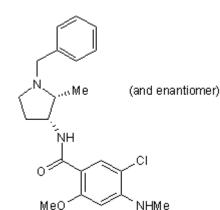
75272-39-8 cis-5-Chloro-2-methoxy-4-(methylamino)-N-[2-methyl-1-(phenylmethyl)-3-pyrrolidinyl]benzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility:

Batch Molecular Structure:

C₂₁H₂₆CIN₃O₂ 387.91 White solid ethanol to 20 mM DMSO to 25 mM Store at RT



2. ANALYTICAL DATA

TLC: HPLC: ¹H NMR: Mass Spectrum: Microanalysis:

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

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Print Date: Jan 14th 2016

Batch No.: 2

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Product Name: Nemonapride

CAS Number: 75272-39-8

IUPAC Name: cis-5-Chloro-2-methoxy-4-(methylamino)-N-[2-methyl-1-(phenylmethyl)-3-pyrrolidinyl]benzamide

Description:

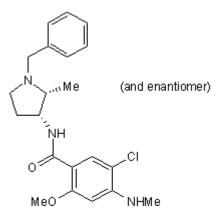
Highly potent dopamine D_2 -like receptor antagonist; selective over D_1 -like receptors (K_i values are 0.1 and 740 nM for D_2 -like and D_1 -like receptors respectively). Also potent 5-HT_{1A} receptor agonist (IC₅₀ = 34 nM) and has affinity for sigma receptors.

Physical and Chemical Properties:

Batch Molecular Formula: C₂₁H₂₆ClN₃O₂ Batch Molecular Weight: 387.91 Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info: ethanol to 20 mM DMSO to 25 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:

Terai *et al* (1983) Selective binding of YM-09151-2, a new potent neuroleptic, to D₂-dopaminergic receptors. Jpn.J.Pharmacol. **33** 749. PMID: 6138453.

Ujike *et al* (1996) [³H]YM-09151-2 (nemonapride), a potent radioligand for both sigma₁ and sigma₂ receptor subtypes. Neuroreport **7** 1057. PMID: 8804051.

Assie et al (1997) 5-HT_{1A} receptor agonist properties of the antipsychotic, nemonapride: comparison with bromerguride and clozapine. Eur.J.Pharmacol. **334** 141. PMID: 9369342.

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