TOCRIS a biotechne brand

Print Date: Sep 20th 2019

Certificate of Analysis

www.tocris.com

Batch No.: 1

Catalog No.: 3361

Product Name: JNJ 17203212

CAS Number: 821768-06-3

IUPAC Name: 4-[3-(Trifluoromethyl)-2-pyridinyl]-N-[5-(trifluoromethyl)-2-pyridinyl]-1-piperazinecarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: $C_{17}H_{15}F_6N_5O$ 419.32 White solid DMSO to 100 mM ethanol to 100 mM Store at +4°C

Storage: **Batch Molecular Structure:**

 CF_3

2. ANALYTICAL DATA

HPLC: ¹H NMR: Mass Spectrum: Microanalysis:

Shows 99.8% purity Consistent with structure Consistent with structure

	Carbon Hydrogen Nitrogen			
Theoretical	48.69	3.61	16.7	
Found	48.46	3.58	16.68	

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

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Product Information

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4-[3-(Trifluoromethyl)-2-pyridinyl]-N-[5-(trifluoromethyl)-2-pyridinyl]-1-piperazinecarboxamide

Description:

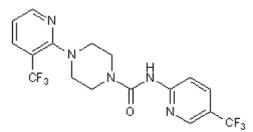
Reversible, competitive and potent TRPV1 antagonist (pK_i values are 6.5, 7.1 and 7.3 at rat, guinea pig and human TRPV1 respectively). Inhibits capsaicin- and H⁺-induced channel activation (pIC₅₀ values are 6.32 and 7.23 respectively) and exhibits antitussive and analgesic activity in vivo.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₇H₁₅F₆N₅O Batch Molecular Weight: 419.32 Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info: DMSO to 100 mM ethanol 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 $45-60^{\circ}C$ 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:

Bhattacharya *et al* (2007) Pharmacology and antitussive efficacy of 4-(3-trifluoromethyl-pyridin-2-yl)-piperazine-1-carboxylic acid (5-trifluoromethyl-pyridin-2-yl)-amide (JNJ17203212), a transient receptor potential vanilloid 1 antagonist in guinea pigs. J.Pharmacol.Exp.Ther. **323** 665. PMID: 17690251.

Ghilardi *et al* (2005) Selective blockade of the capsaicin receptor TRPV1 attenuates bone cancer pain. J.Neurosci. **25** 3126. PMID: 15788769.

Swanson *et al* (2005) Identification and biological evaluation of 4-(3-trifluoromethylpyridin-2-yl)piperazine-1-carboxylic acid (5-trifluoromethylpyridin-2-yl)amide, a high affinity TRPV1 (VR1) vanilloid receptor antagonist. J.Med.Chem. **48** 1857. PMID: 15771431.

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