Print Date: Feb 20th 2012

Certificate of Analysis

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Product Name: A 784168 **Catalog No.: 4319** **Batch No.: 2**

CAS Number: 824982-41-4

IUPAC Name: 3,6-Dihydro-3'-(trifluoromethyl)-*N*-[4-[(trifluoromethyl)sulfonyl]phenyl]-[1(2*H*),2'-bipyridine]-4-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{19}H_{15}F_6N_3O_3S$

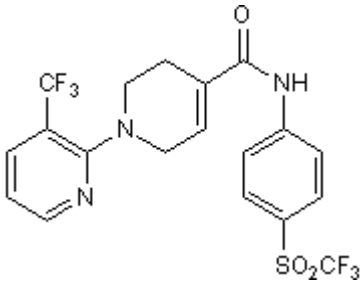
Batch Molecular Weight: 479.4

Physical Appearance: Off-white solid

Solubility: DMSO to 100 mM
ethanol to 50 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.5 (Dichloromethane:Pet ether:Ethyl acetate [5:5:3])

HPLC: Shows >99.7% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	47.6	3.15	8.77
Found	47.56	3.12	8.7

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Description:

Potent TRPV1 antagonist (IC_{50} = 25 nM for inhibition of TRPV1 activation by 50 nM capsaicin). Displays no activity against a range of receptors, including TRPA1, GABA, opioid, and purinergic receptors.

Physical and Chemical Properties:

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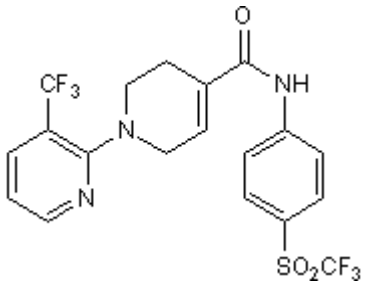
Batch Molecular Weight: 479.4

Physical Appearance: Off-white solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Useage Info:

DMSO to 100 mM
ethanol to 50 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:

Cui *et al* (2006) TRPV1 receptors in the CNS play a key role in broad-spectrum analgesia of TRPV1 antagonists. J.Neurosci. ***26*** 9385. PMID: 16971522.

Bianchi *et al* (2007) [^{3}H]-A-778317 [1-((*R*-5-*tert*-butyl-indan-1-yl)-3-isoquinolin-5-yl-urea]: a novel, stereoselective, high-affinity antagonist is a useful radioligand for the human transient receptor potential vanilloid-1 (TRPV1) receptor. J.Pharmacol.Exp.Ther. ***323*** 285. PMID: 17660385.