

Certificate of Analysis

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Product Name: A 425619

Catalog No.: 5781

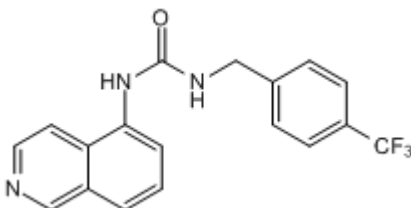
Batch No.: 1

CAS Number: 581809-67-8

IUPAC Name: *N*-5-Isoquinolinyl-*N*-[[4-(trifluoromethyl)phenyl]methyl]urea

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₁₄F₃N₃O
Batch Molecular Weight: 345.32
Physical Appearance: Tan solid
Solubility: DMSO to 100 mM
ethanol to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.42 (Dichloromethane:Methanol [95:5])
HPLC: Shows 98.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	62.61	4.09	12.17
Found	62.51	4.06	12.12

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

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Description:

Potent TRPV1 antagonist (IC₅₀ = 3-9 nM). Blocks capsaicin-evoked currents in rat DRG neurons and inhibits TRPV1-activation by anandamide (Cat. No. 1339) and *N*-arachidonoyl-dopamine. Reduces pain in inflammatory, postoperative and osteoarthritic in vivo pain models.

Physical and Chemical Properties:

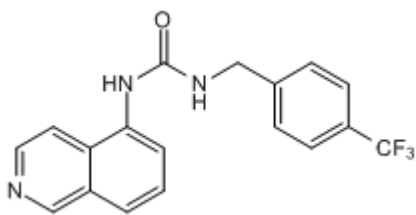
Batch Molecular Formula: C₁₈H₁₄F₃N₃O

Batch Molecular Weight: 345.32

Physical Appearance: Tan solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

McGarraughty et al (2006) Systemic and site-specific effects of A-425619, a selective TRPV1 receptor antagonist, on wide dynamic range neurons in CFA-treated and uninjured rats. *J.Neurophysiol.* **95** 18. PMID: 16162831.

El Kouhen et al (2005) A-425619 [1-isoquinolin-5-yl-3-(4-trifluoromethyl-benzyl)-urea], a novel and selective transient receptor potential type V1 receptor antagonist, blocks channel activation by vanilloids, heat, and acid. *J.Pharmacol.Exp.Ther.* **314** 400. PMID: 15837819.

Storage: Store at RT

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°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.

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