

Certificate of Analysis

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Product Name: BX 430

Catalog No.: 5545

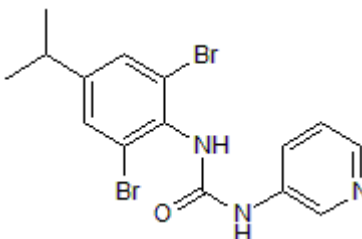
Batch No.: 1

CAS Number: 688309-70-8

IUPAC Name: *N*-[2,6-Dibromo-4-(1-methylethyl)phenyl]-*N'*-(3-pyridinyl)urea

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₁₅Br₂N₃O
Batch Molecular Weight: 413.11
Physical Appearance: White crystalline solid
Solubility: DMSO to 100 mM
ethanol to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.23 (Dichloromethane:Methanol [95:5])
HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	43.61	3.66	10.17
Found	43.77	3.65	10.2

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

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Description:

Selective P2X₄ allosteric antagonist (IC₅₀ = 0.54 μM). Exhibits >10-fold selectivity for human P2X₄ receptors over P2X₁, P2X₂, P2X₃, P2X₅ and P2X₇ receptors. Binds noncompetitively at extracellular allosteric site. Effective at human and zebrafish, but not mouse and rat P2X₄ receptors.

Physical and Chemical Properties:

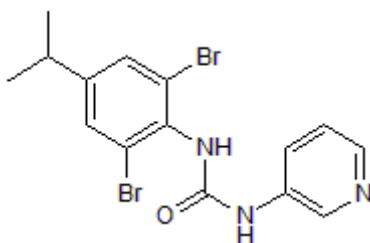
Batch Molecular Formula: C₁₅H₁₅Br₂N₃O

Batch Molecular Weight: 413.11

Physical Appearance: White crystalline solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Ase et al (2015) Identification and characterization of a selective allosteric antagonist of human P2X₄ receptor channels *Mol.Pharmacol.* **87** 606. PMID: 25597706.

Storage: Store at +4°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

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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