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Certificate of Analysis

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Product Name: NS 5806

Catalog No.: 4166 Batch No.: 1

CAS Number: IUPAC Name:

426834-69-7

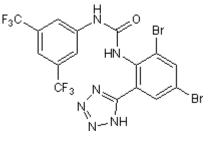
N-[3,5-Bis(trifluoromethyl)phenyl]-N-[2,4-dibromo-6-(2H-tetrazol-5-yl)phenyl]urea

1. PHYSICAL AND CHEMICAL PROPERTIES

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

Storage: Batch Molecular Structure: C₁₆H₈Br₂F₆N₆O 574.07 White solid DMSO to 100 mM ethanol to 50 mM





2. ANALYTICAL DATA

TLC: HPLC: ¹H NMR: Mass Spectrum: Microanalysis: R_f = 0.1 (Dichloromethane:Methanol [9:1]) Shows 99.6% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen

Theoretical	33.38	1.4	14.64
Found	33.67	1.45	14.56

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

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Print Date: Jan 15th 2016

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N-[3,5-Bis(trifluoromethyl)phenyl]-N-[2,4-dibromo-6-(2H-tetrazol-5-yl)phenyl]urea

Description:

 $K_V4.3$ channel activator; mediates the transient outward K⁺ current (I_{to}). Increases I_{Kv4.3} peak current amplitude in CHO-K1 cells expressing K_V4.3 and KChIP2 (EC₅₀ = 5.3 μ M). Inhibits K_V1.4-mediated currents independently of KChIP2. Also slows the decay of K_V4.2 and K_V4.3 currents in the presence of KChIP2.

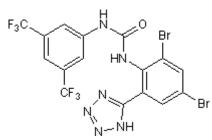
426834-69-7

Physical and Chemical Properties:

Batch Molecular Formula: C₁₆H₈Br₂F₆N₆O Batch Molecular Weight: 574.07 Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage 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).

Catalog No.: 4166

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:

Calloe *et al* (2009) A transient outward potassium current activator recapitulates the electrocardiographic manifestations of Brugada syndrome. Cardiovasc.Res. **81** 686. PMID: 19073629.

Calloe *et al* (2010) Differential effects of the transient outward K⁺ current activator NS5806 in the canine left ventricle. J.Mol.Cell.Cardiol. **48** 191. PMID: 19632239.

Lundby *et al* (2010) Effect of the Ito activator NS5806 on cloned Kv4 channels depends on the accessory protein KChIP2. Br.J.Pharmacol. *160* 2028. PMID: 20649599.

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