TOCRIS a biotechne brand

Batch No.: 4

Certificate of Analysis

www.tocris.com

Catalog No.: 3804

Product Name: NS 1619

CAS Number: IUPAC Name:

Storage:

153587-01-0

1,3-Dihydro-1-[2-hydroxy-5-(trifluoromethyl)phenyl]-5-(trifluoromethyl)-2H-benzimidazol-2-one

1. PHYSICAL AND CHEMICAL PROPERTIES

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

Batch Molecular Structure:

 $C_{15}H_8F_6N_2O_2$ 362.23 White solid DMSO to 100 mM ethanol to 100 mM Store at +4°C

CF₃

2. ANALYTICAL DATA

HPLC: ¹H NMR: Mass Spectrum: Microanalysis:

Shows 98.5% purity Consistent with structure Consistent with structure

| | Carbon Hydrogen Nitroger | | | | |
|-------------|--------------------------|------|------|--|--|
| Theoretical | 49.74 | 2.23 | 7.73 | | |
| Found | 49.76 | 2.25 | 7.61 | | |

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

| bio-techne.com | North America | China | Europe Middle East Africa | Rest of World |
|---|---------------------|--|---------------------------|--|
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Product Name: NS 1619

CAS Number: **IUPAC Name:**

1,3-Dihydro-1-[2-hydroxy-5-(trifluoromethyl)phenyl]-5-(trifluoromethyl)-2H-benzimidazol-2-one

Description:

Large-conductance Ca2+-activated potassium (BK_{Ca}, K_{Ca}1.1) channel activator. Induces a concentration-dependent decrease in mitochondrial membrane potential (EC₅₀ = 3.6μ M).

153587-01-0

Physical and Chemical Properties:

Batch Molecular Formula: C15H8F6N2O2 Batch Molecular Weight: 362.23 Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:

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.

Catalog No.: 3804

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.

References:

Han et al (2008) The potassium ion channel opener NS1619 inhibits proliferation and induces apoptosis in A2780 ovarian cancer cells. Biochem.Biophys.Res.Comm. 375 205.

Debska et al (2003) Large-conductance K⁺ channel openers NS1619 and NS004 as inhibitors of mitochondrial function in glioma cells. Biochem.Pharmacol. 65 1827. PMID: 12781334.

Olesen et al (1994) Selective activation of Ca(2+)-dependent K+ channels by novel benzimidazolone. Eur.J.Pharmacol. 251 53. PMID: 8137869.

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