

**Product Name:** NS 3763

**Catalog No.:** 2187

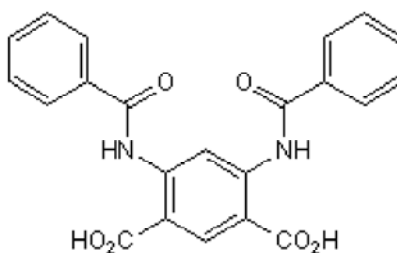
**Batch No.:** 2

CAS Number: 70553-45-6

IUPAC Name: 4,6-Bis(benzoylamino)-1,3-benzenedicarboxylic acid

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>22</sub>H<sub>16</sub>N<sub>2</sub>O<sub>6</sub>·<sup>3</sup>/<sub>4</sub>H<sub>2</sub>O  
**Batch Molecular Weight:** 417.89  
**Physical Appearance:** Beige solid  
**Solubility:** DMSO to 25 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.6 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])  
**HPLC:** Shows 99% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	63.08	3.93	6.73
Found	63.23	4.22	6.7

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

**Product Name:** NS 3763

**Catalog No.:** 2187

**Batch No.:** 2

CAS Number: 70553-45-6

IUPAC Name: 4,6-Bis(benzoylamino)-1,3-benzenedicarboxylic acid

**Description:**

Selective non-competitive kainate receptor antagonist; displays selectivity for GluK1 (formerly GLU<sub>K5</sub>) subunit-containing receptors (IC<sub>50</sub> values are 1.6 and > 30 μM for homomeric GluK1 (formerly GLU<sub>K5</sub>) and GluK2 (formerly GLU<sub>K6</sub>) receptors respectively). Has minimal activity at AMPA and NMDA receptors (IC<sub>50</sub>> 30 μM). Please refer to IUPHAR Guide to Pharmacology for the most recent naming conventions.

**Physical and Chemical Properties:**

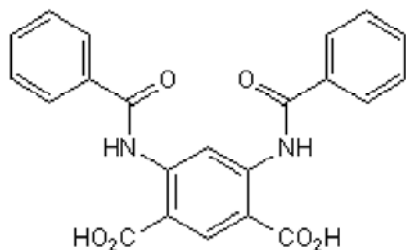
Batch Molecular Formula: C<sub>22</sub>H<sub>16</sub>N<sub>2</sub>O<sub>6</sub>·<sup>3</sup>/<sub>4</sub>H<sub>2</sub>O

Batch Molecular Weight: 417.89

Physical Appearance: Beige solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**References:**

**Christensen *et al*** (2004) In vitro characterization of 5-carboxyl-2,4-di-benzamido-benzoic acid (NS3763), a noncompetitive antagonist of GLU<sub>K5</sub> receptors. *J.Pharmacol.Exp.Ther.* **309** 1003. PMID: 14985418.

**Storage:** Store at RT

**Solubility & Usage Info:**

DMSO to 25 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.

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

**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors

Tel:+1 612 379 2956