

## Certificate of Analysis

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**Product Name:** NPPB

**Catalog No.:** 0593

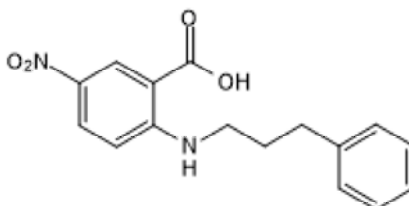
**Batch No.:** 4

CAS Number: 107254-86-4

IUPAC Name: 5-Nitro-2-(3-phenylpropylamino)benzoic acid

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>16</sub>H<sub>16</sub>N<sub>2</sub>O<sub>4</sub>  
**Batch Molecular Weight:** 300.31  
**Physical Appearance:** Yellow solid  
**Solubility:** DMSO to 100 mM  
 ethanol to 20 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.3 (10% EtOH/EtOAc)  
**HPLC:** Shows 99.9% purity  
<sup>1</sup>H NMR: Consistent with structure  
 Mass Spectrum: Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	63.99	5.37	9.33
Found	63.96	4.98	9.48

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

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**Catalog No.:** 0593

**Batch No.:** 4

CAS Number: 107254-86-4

IUPAC Name: 5-Nitro-2-(3-phenylpropylamino)benzoic acid

**Description:**

Inhibits calcium-sensitive chloride currents (10 μM). Putative GPR35 agonist.

**Physical and Chemical Properties:**

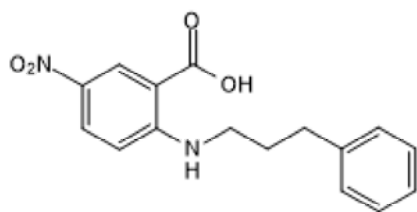
Batch Molecular Formula: C<sub>16</sub>H<sub>16</sub>N<sub>2</sub>O<sub>4</sub>

Batch Molecular Weight: 300.31

Physical Appearance: Yellow solid

**Minimum Purity:** ≥99%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol to 20 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:**

**Taniguchi *et al*** (2008) 5-nitro-2-(3-phenylpropylamino)benzoic acid is a GPR35 agonist *Pharmacology* **82** 245. PMID: 18818509.

**Kirkup *et al*** (1996) Investigation of the effects of 5-nitro-2-(3-phenylpropylamino)-benzoic acid (NPPB) on membrane currents in rat portal vein. *Br.J.Pharmacol.* **117** 175. PMID: 8825360.

**Keeling *et al*** (1991) Effects of NPPB (5-nitro-1-(3-phenylpropylamino)benzoic acid on chloride transport in intestinal tissues and the T<sub>84</sub> cell line. *Biochim.Biophys.Acta* **115** 42. PMID: 1720331.

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