

## Certificate of Analysis

**Product Name:** Ipsapirone

**Catalog No.:** 1869

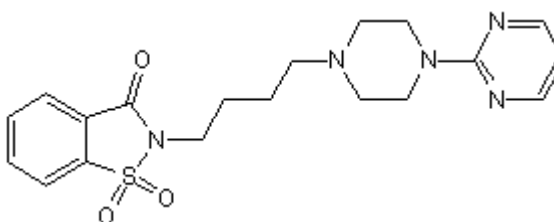
**Batch No.:** 2

CAS Number: 95847-70-4

IUPAC Name: 2-[4-[4-(2-Pyrimidinyl)-1-piperazinyl]butyl]-1,2-benzisothiazol-3(2H)-one-1,1-dioxide

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>19</sub>H<sub>23</sub>N<sub>5</sub>O<sub>3</sub>S  
**Batch Molecular Weight:** 401.48  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 10 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.48 (Dichloromethane:Methanol [9:1])  
**HPLC:** Shows 99.4% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	56.84	5.77	17.44
Found	56.95	5.75	17.45

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**Description:**

Selective 5-HT<sub>1A</sub> receptor agonist (K<sub>i</sub> = 10 nM). Anxiolytic in vivo.

**Physical and Chemical Properties:**

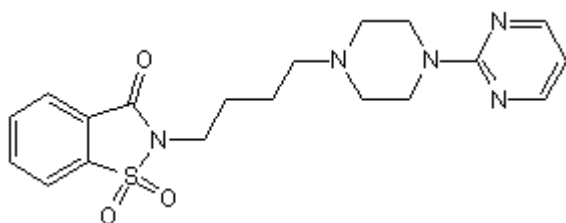
Batch Molecular Formula: C<sub>19</sub>H<sub>23</sub>N<sub>5</sub>O<sub>3</sub>S

Batch Molecular Weight: 401.48

Physical Appearance: White solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

DMSO to 10 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:**

**Traber et al** (1984) Brain serotonin receptors as a target for the putative anxiolytic TVX Q 7821. Brain Res.Bull. **12** 741. PMID: 6541079.

**Glaser and Traber** (1985) Binding of the putative anxiolytic TVX Q 7821 to hippocampal 5-hydroxytryptamine (5-HT) recognition sites. Naunyn-Schmied.Arch.Pharmacol. **329** 211.

**Maj et al** (1987) Central action of ipsapirone, a new anxiolytic drug, on serotonergic, noradrenergic and dopaminergic functions. J.Neural.Transm. **70** 1. PMID: 2889795.

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