

## Certificate of Analysis

[www.tocris.com](http://www.tocris.com)

**Product Name:** IPAG

**Catalog No.:** 0544

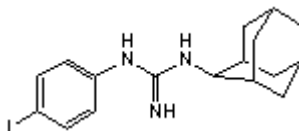
**Batch No.:** 3

CAS Number: 193527-91-2

IUPAC Name: 1-(4-Iodophenyl)-3-(2-adamantyl)guanidine

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>17</sub>H<sub>22</sub>IN<sub>3</sub>  
**Batch Molecular Weight:** 395.29  
**Physical Appearance:** White solid  
**Solubility:** ethanol to 50 mM  
 DMSO to 100 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.4 (Dichloromethane:Ethanol:Ammonia soln. [5:1])  
**Melting Point:** At 212°C  
**HPLC:** Shows >99.5% purity  
<sup>1</sup>H NMR: Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen		
Theoretical	51.65	5.61	10.63	0	0 0
Found	51.64	5.61	10.6	0	0 0

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

**Product Name:** IPAG

**Catalog No.:** 0544

**Batch No.:** 3

CAS Number: 193527-91-2

IUPAC Name: 1-(4-Iodophenyl)-3-(2-adamantyl)guanidine

**Description:**

Potent  $\sigma$ -receptor antagonist.

**Physical and Chemical Properties:**

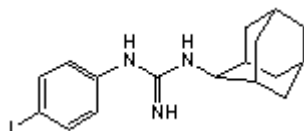
Batch Molecular Formula: C<sub>17</sub>H<sub>22</sub>IN<sub>3</sub>

Batch Molecular Weight: 395.29

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at RT

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

**Solubility & Usage Info:**

ethanol to 50 mM

DMSO 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:**

**Wilson et al** (1991) Radiosynthesis of  $\sigma$  receptor ligands for positron emission tomography: <sup>11</sup>C- and <sup>18</sup>F-labelled guanidines. *J.Med.Chem.* **34** 1867. PMID: 1648140.

**Whittemore et al** (1997) Antagonism of N-methyl-D-aspartate receptors by  $\sigma$  site ligands: potency, subtype-selectivity and mechanisms of inhibition. *J.Pharmacol.Exp.Ther.* **282** 326. PMID: 9223571.

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