

## Certificate of Analysis

www.tocris.com

**Product Name:** CY 208-243

**Catalog No.:** 1249

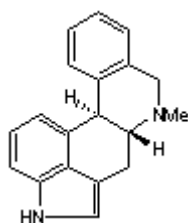
**Batch No.:** 1

CAS Number: 100999-26-6

IUPAC Name: (-)-(6*aR*,12*bR*)-4,6,6*a*,7,8,12*b*-Hexahydro-7-methylindolo[4,3-*a*]phenanthridin

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>19</sub>H<sub>18</sub>N<sub>2</sub>  
**Batch Molecular Weight:** 274.36  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.62 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])  
**Melting Point:** Between 227 - 228°C  
**<sup>1</sup>H NMR:** Consistent with structure  
**Optical Rotation:** [α]<sub>D</sub> = -62.1 (Concentration = 1, Solvent = Methanol)  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen		
Theoretical	83.18	6.61	10.21	0	0
Found	82.96	6.55	10.08	0	0

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

**Product Name:** CY 208-243

**Catalog No.:** 1249

**Batch No.:** 1

CAS Number: 100999-26-6

IUPAC Name: (-)-(6a*R*,12b*R*)-4,6,6a,7,8,12b-Hexahydro-7-methylindolo[4,3-*a*]phenanthridin

**Description:**

Centrally active dopamine D<sub>1</sub> receptor agonist, selective over D<sub>2</sub> receptor sites. Stimulates adenylate cyclase in rat striatal homogenates with an EC<sub>50</sub> of 125 nM. Unlike SKF 38393 (Cat. No. 0922), it exerts antiParkinsonian activity in animal models.

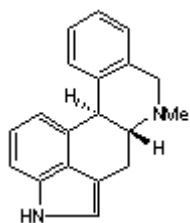
**Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>19</sub>H<sub>18</sub>N<sub>2</sub>

Batch Molecular Weight: 274.36

Physical Appearance: White solid

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

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:**

**Markstein et al** (1988) Pharmacologic properties of CY 208-243, a novel D1 agonist. *Progress in Catecholamine Research. Part B. Centra* 59-64.

**Temlett et al** (1989) Antiparkinsonian activity of CY 208-243, a partial D-1 dopamine receptor agonist, in MPTP-treated marmosets and patients with Parkinson's disease. *Mov.Disord.* **4** 261. PMID: 2571082.

**Andersen and Jansen** (1990) Dopamine receptor agonists: selectivity and dopamine D<sub>1</sub> receptor efficacy. *Eur.J.Pharmacol.* **188** 335. PMID: 1973652.

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