

**Product Name:** AG 205

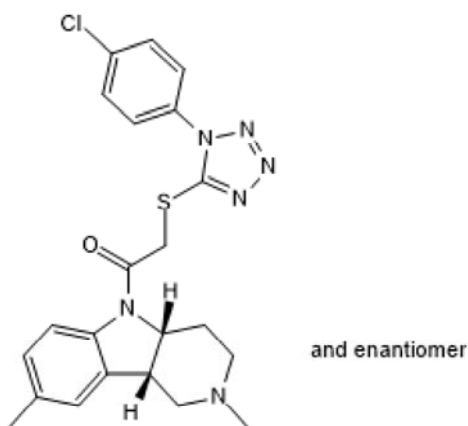
**Catalog No.:** 6242

**Batch No.:** 1

**IUPAC Name:** cis-2-[[1-(4-Chlorophenyl)-1H-tetrazol-5-yl]thio]-1-(1,2,3,4,4a,9b-hexahydro-2,8-dimethyl-5H-pyrido[4,3-b]indol-5-yl)-ethanone

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>22</sub>H<sub>23</sub>ClN<sub>6</sub>OS  
**Batch Molecular Weight:** 454.98  
**Physical Appearance:** Pale yellow solid  
**Solubility:** DMSO to 50 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 98% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	58.08	5.1	18.47
Found	57.96	5.09	18.4

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**Description:**

Progesterone receptor membrane component 1 (Pgrmc1) ligand. Inhibits cell cycle progression and cell viability in cancer cell lines. Inhibits progesterone induced cytosolic Ca<sup>2+</sup> increases in GnRH neurons in vitro.

**Physical and Chemical Properties:**

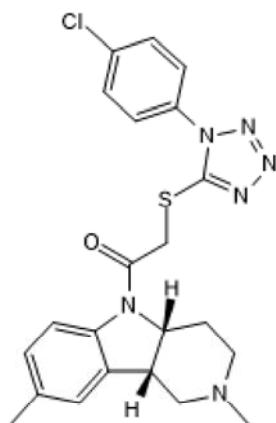
Batch Molecular Formula: C<sub>22</sub>H<sub>23</sub>ClN<sub>6</sub>OS

Batch Molecular Weight: 454.98

Physical Appearance: Pale yellow solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



and enantiomer

**Storage:** Store at +4°C

**Solubility & Usage Info:**

DMSO to 50 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:**

**Bashour and Wray** (2012) Progesterone directly and rapidly inhibits GnRH neuronal activity via progesterone receptor membrane component 1. *Endocrinology*. **153** 4457. PMID: 22822163.

**Ahmed et al** (2010) Progesterone receptor membrane component 1 (Pgrmc1): a heme-1 domain protein that promotes tumorigenesis and is inhibited by a small molecule. *J.Pharmacol.Exp.Ther.* **333** 564. PMID: 20164297.

**Yoshitani et al** (2005) A structure-based strategy for discovery of small ligands binding to functionally unknown proteins: combination of in silico screening and surface plasmon resonance measurements. *Proteomics*. **5** 1472. PMID: 15798990.

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