

Product Name: AG 205

Catalog No.: 6242

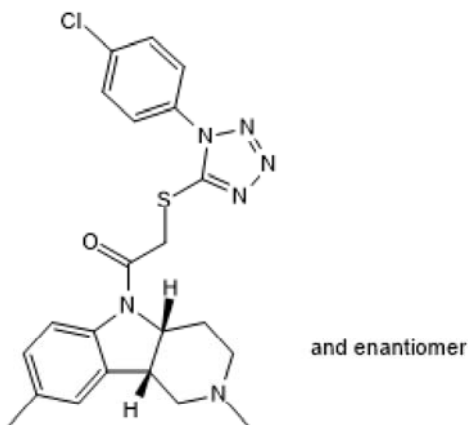
Batch No.: 1

CAS Number: 442656-02-2

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₂₃ClN₆OS
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
¹H 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

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

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Description:

AG 205 is a progesterone receptor membrane component 1 (Pgrmc1) ligand. Inhibits cell cycle progression and cell viability in cancer cell lines. Inhibits progesterone induced cytosolic Ca²⁺ increases in GnRH neurons in vitro.

Physical and Chemical Properties:

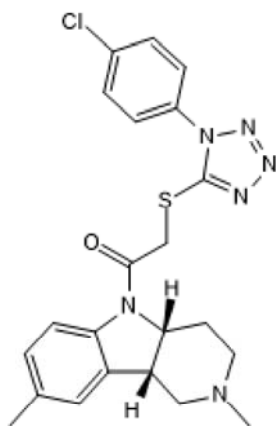
Batch Molecular Formula: C₂₂H₂₃ClN₆OS

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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