

Product Name: CI-4AS-1

Catalog No.: 3812

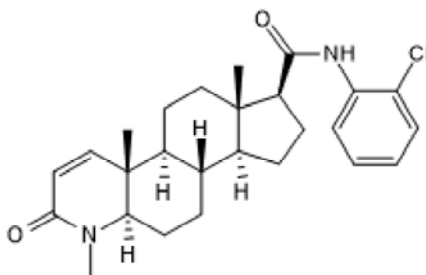
Batch No.: 2

CAS Number: 188589-66-4

IUPAC Name: (4 α ,4b β ,6 α ,7 α ,9 α β ,9b α ,11 α β)-N-(2-Chlorophenyl)-2,4a,4b,5,6,6a,7,8,9,9a,9b,10,11,11a-tetradecahydro-1,4,6a-trimethyl-2-oxo-1*H*-indeno[5,4-*f*]quinoline-7-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₆H₃₃ClN₂O₂
Batch Molecular Weight: 441.01
Physical Appearance: White solid
Solubility: DMSO to 10 mM
ethanol to 10 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.55 (Dichloromethane:Methanol [95:5])
HPLC: Shows 99.2% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	70.81	7.54	6.35
Found	70.77	7.53	6.34

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

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Description:

Potent steroidal androgen receptor agonist (IC₅₀ = 12 nM). Mimics the action of 5 α -dihydrotestosterone (DHT). Transactivates the mouse mammary tumor virus (MMTV) promoter; represses MMP1 promoter activity. Inhibits 5 α -reductase type I and II (IC₅₀ values are 6 and 10 nM respectively).

Physical and Chemical Properties:

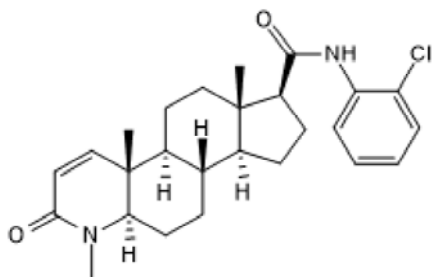
Batch Molecular Formula: C₂₆H₃₃ClN₂O₂

Batch Molecular Weight: 441.01

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 10 mM

ethanol 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:

Schmidt *et al* (2009) Identification of anabolic selective androgen receptor modulators with reduced activities in reproductive tissues and sebaceous glands. *J.Biol.Chem.* **284** 36367. PMID: 19846549.

Tolman *et al* (1997) 4-Methyl-3-oxo-4-aza-5 α -androst-1-ene-17 β -N-aryl-carboxamides: an approach to combined androgen blockade [5 α -reductase inhibition with androgen receptor binding *in vitro*]. *J.Steroid.Biochem.Mol.Biol.* **60** 303. PMID: 9219921.

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