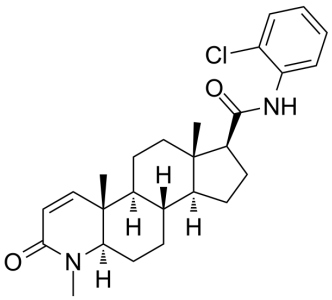
Cl-4AS-1

Cat. No.:	HY-103245
CAS No.:	188589-66-4
Molecular Formula:	$C_{26}H_{33}ClN_2O_2$
Molecular Weight:	441.01
Target:	Androgen Receptor
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Cl-4AS-1, a potent steroidal androgen receptor (AR) agonist (IC_{50} = 12 nM), is also an inhibitor of 5α-reductase types I and II (IC50 = 6 and 10 nM, respectively)[1][2].
IC_{50} & Target	IC50: 12 nM (androgen receptor); 6 nM (5α-reductase types I); 10 nM (5α-reductase types II)[1][2]
In Vitro	Cl-4AS-1 suppresses MMP-1 promoter activity in 22Rv1 human prostate cancer cells[1]. Cl-4AS-1 (10 μM) effectively promotes the AR N/C interaction, with an average maximal activity of 35.3%[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Cl-4AS-1 produces no significant reduction in prostate weight in intact animals and in castrates rats caused a significant increase of ventral prostate weight[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	ORX rats[1]
Dosage:	10 mg/kg
Administration:	I.s.; 7 days
Result:	Effect of Cl-4AS-1 on prostate and seminal vesicle growth.

REFERENCES

[1]. Schmidt A, et al. Identification of anabolic selective androgen receptor modulators with reduced activities in reproductive tissues and sebaceous glands. J Biol Chem. 2009 Dec 25;284(52):36367-36376.

[2]. Tolman RL, et al. 4-Methyl-3-oxo-4-aza-5alpha-androst-1-ene-17beta-N-aryl-carboxamides: an approach to combined androgen blockade [5alpha-reductase inhibition with androgen receptor binding in vitro]. J Steroid Biochem Mol Biol. 1997 Mar;60(5-6):303-9.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA